

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from April 1, 1927.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 years†	2 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

LIST OF APPLICANTS.

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The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *Italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

FOR ADMISSION

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(7) ANTHONY, WALTER BURTON EDWARD, U. S. Engr. Office, Duluth, Minn. (Age 35. Born Portland, Ore.) 1914 B. S. in Civ. Eng., Ore. Agri. Coll. *TT* 2. June to Oct. 1913 Office and Field Engr., designed and constructed drainage system for Oregon Agricultural Coll. Oct. 1914 to May 1915 Engr., Carmel Development Co., on townsite development. *TT* 0.7: *RC* 0.7. June to Oct. 1915 Office and Field Engr. with Monterey County Surveyor, on computations, bridge design, surveying and highway inspection. *TT* 0.4. Nov. 1915 to Jan. 1916 Rodman and Topographer, Oregon State Highway. *TT* 0.3. March to Oct. 1916 Instrumentman and Engr., U. S. Reclamation Service, Umitilla Irrigation Project, surveying and construction. *TT* 0.7. Nov. 1916 to April 1918 Engr., Interstate Commerce Comm., Bureau of Valuation, San Francisco, office engineering and computations, valuation work. *TT* 1.5: *RC* 0.5. April 1918 to March 1919 Aviator, Naval Aviation Service. April 1919 to Jan. 1922 Senior Civ. Engr., Interstate Commerce Comm., Bureau of Valuation, San Francisco and Washington, D. C., in charge of engineering of Land Valuation Dept. for Pacific Dist. *TT* 2.8: *RC* 2.8. Feb. 1922 to Aug. 1923 Research Civ. Engr., Forest Products Laboratory, Madison, Wis. *TT* 1.6: *SP* 1.6. Sept. 1923 to Aug. 1924 Instrumentman and Engr., Stone & Webster, Inc., conducted surveys and investigations of Bartlett's Ferry damsite in Georgia, located and built branch railroad, diamond drilling and stream investigation. *TT* 1: *RC* 0.7. Sept. 1924 to date Engr., U. S. Engr. Corps, engaged as follows: Sept. 1924 to April 1925 at Muscle Shoals, in charge of construction of switchhouse and oil circuit breaker building and other concrete structures, general supervision over excavation, concrete, steel and electrical work; May 1925 to Aug. 1926 on deep waterway investigation of St. Lawrence River, in charge of Cornwall section, including damsite and power-house location, etc., shaft sinking, foundation and water investigation, some surveys; since Sept. 1926 at Duluth office, catching up loose ends, conducting surveys, etc. *TT* 2.6: *RC* 2.6. *TT* 13.6: *RC* 8.9. Refers to J. A. Newlin, G. B. Pillsbury, H. J. Saunders, A. A. Semsen, G. A. Taylor, T. R. C. Willson.

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(13) ARMSTRONG, THOMAS HUDSON, R. F. D. Box 6-E, Palo Alto, Cal. (Age 45. Born Woodsfield, Ohio.) 1905 B. S., Ohio State Univ. *TT* 2: *SP* 2. July 1905 to May 1906 Asst. in chemical laboratories, Carnegie Steel Co., Bellaire, Ohio, and National Tube Co., Wheeling, W. Va., making analyses of iron and steel. *TT* 0.8: *SP* 0.8. June 1906 to March 1907 and May 1907 to Aug. 1909 Draftsman, successively for West Virginia Bridge & Constr. Co., Wheeling, W. Va., Vierling, McDowell & Co., Chicago, Ill., Mt. Vernon (Ohio) Bridge Co., Brown Ketcham Iron Works, Indianapolis, Ind., and Lake Erie & Western R. R., making shop drawings, etc., for bridge and building work and design drawings for plate girder bridges. *TT* 3: *SP* 3. Aug. 1909 to March 1913 Draftsman and Asst. to Chf. Draftsman, Structural Dept., Cambria Steel Co., detailing, designing and directing work of section of drawing room. *TT* 3.6: *SP* 1.6: *P* 2: *RC* 2. March 1913 to May 1918 Asst., Bridge Dept., Pennsylvania Lines West of Pittsburgh, designing, checking stress sheets and shop drawings. *TT* 5.2: *P* 5.2. Aug. 1918 to Jan. 1921 Designing Draftsman, Power Constr. Co., San Francisco, Cal. *TT* 2.4:

P 2.4: RC 2.4. Jan. 1921 to May 1922 Designing Draftsman, Great Western Power Co., San Francisco, designing and detailing on transmission lines and substations. *TT 1.3: P 1.3: D 0.6.* May 1922 to date Designing Engr., Pacific Coast Steel Co., Tower Dept., San Francisco, in full charge of designing steel towers for high-voltage transmission lines, execution of design and shop drawings and testing fabricated towers for full design loads, etc. *TT 4.7: P 4.7: RC 4.7: D 4.7.* *TT 23: SP 7.4: P 15.6: RC 9.1: D 5.3.* Refers to J. C. Bland, E. O. Burgess, P. W. Ham, J. F. Leonard, F. S. Merrill, H. G. Sharp, J. B. Wells.

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(12) **BAUER, ALBERT**, 746 East Salmon St., Portland, Ore. (Age 27. Born Portland, Ore.) 1922 B. S., Ore. Agri. Coll. *TT 2: SP 2.* June 1922 to Feb. 1923 Draftsman, Dept. of Operations, Portland (Ore.) Gas & Coke Co. *TT 0.7: SP 0.7.* March 1923 to date with Water Bureau, Portland, until July 1926 as Draftsman, acting as Chf. of Party, etc., drawing plats and service maps, detailing mains and extensions, inspecting inlet chamber, Bull Run Pipe Line No. 3, on surveys, studies, etc., of Bull Run Storage Project; surveys of Blazed Alder Storage Project and of Bear Creek Road (6 miles) and (Nov. 1925-July 1926) design of Bear Creek Road and of 40-in. Vernon supply main; since Aug. 1926 Asst. Engr., acting as Chf. of Party on location and preliminary construction of Bull Run Storage Project. *TT 4: SP 1.3: P 2.7: RC 1.4: D 0.9.* *TT 6.7: SP 4: P 2.7: RC 1.4: D 0.9.* Refers to D. C. Henny, B. S. Morrow, F. M. Randlett, S. H. Sims, O. E. Stanley, B. E. Torpen.

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(7) **BAXTER, JOHN CRICHTON**, 1209 Builders Exchange Bldg., St. Paul, Minn. (Age 49. Born East Orange, N. J.) June 1898 to May 1899 Private, Co. M, 2d U. S. Vol. Engrs. *TT 0.9: SP 0.9.* July 1899 to Jan. 1900 Rodman, Oregon Railway & Navigation Co. *TT 0.4: SP 0.4.* Jan. to March 1900 Recorder, U. S. Engrs., on river survey. *TT 0.2: SP 0.2.* March 1900 to Aug. 1901 Instrumentman, successively with Columbia River Paper Co., Morris & Whitehead, and Oregon Short Line Ry. *TT 1.5: SP 1.5.* Aug. 1901 to May 1902 Transitman, and May 1902 to March 1904 Asst. Engr. on maintenance-of-way, Northern Pacific Ry. *TT 2.6: SP 0.8: P 1.8: RC 1.* March to July 1904 Transitman, Grand Trunk Pacific Ry. *TT 0.3: SP 0.3.* Sept. to Dec. 1904 Surveyman, U. S. Engrs., on highway location. *TT 0.3: P 0.3.* Jan. to Feb. 1905 Computer, City of Tacoma, Wash., in drafting office. *TT 0.1: SP 0.1.* Feb. to June 1905 Res. Engr., and June 1905 to March 1907 Div. Engr., Alaska Central Ry., on location and construction. *TT 2: P 2: RC 1.7.* March to Sept. 1907 and March to Sept. 1909 Location Engr. and Sept. 1907 to March 1909 Dist. Engr., on construction, Chicago, Milwaukee & Puget Sound Ry. *TT 2.5: P 2.5: RC 2.5: D 1.* Sept. 1909 to March 1912 Div. Engr. on location and construction, until Sept. 1911 with Oregon Trunk Ry., then with Oregon Elec. Ry. *TT 2.5: P 2.5: RC 2.5: D 2.5.* March 1912 to 1916 Supt., Guthrie-McDougall Co., on railway construction. *TT 3.7: P 3.7: RC 3.7: D 1.* 1916 to Dec. 1922 Gen. Supt., and Dec. 1922 to date Vice-Pres., A. Guthrie & Co., Inc., Contrs. and Engrs., on railroad construction, stripping and mining iron ores, foundation, concrete and timber work, tunnels, bridges and dams. *TT 11.3: P 11.3: RC 11.3: D 4.* *TT 28.3: SP 4.2: P 24.1: RC 22.7: D 8.5.* Refers to R. Budd, W. L. Darling, A. H. Hogeland, A. G. Holt, J. F. Stevens, H. E. Stevens.

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(8) **BENNETT, EVAN HAROLD**, 217 West North St., Danville, Ill. (Age 34. Born Ft. Dodge, Iowa.) July 1916 to July 1917 and March to June 1919 Rodman and Instrumentman, Northern Pacific Ry. *TT 1.2: SP 1.2.* July 1917 to March 1919 Private, Non-Commissioned Officer, and (after Oct. 1918) Lieut., 108th Engrs, 33d Div., U. S. Army, A. E. F., occasional design and construction of military engineering works, topographical surveys. *TT 1.7: SP 0.9: P 0.8.* June to Oct. 1919 Location Engr., Davenport, Springfield & Southern Ry. (projected), in charge of location from Springfield to Davenport. *TT 0.3: P 0.3: RC 0.3.* 1920 Res. Engr., Cuyamel (Honduras) Fruit Co., plantation development, railway construction, drainage, surveys, exploration and reports. *TT 1: P 1: RC 0.7.* Jan. 1921 to July 1922 Res. Engr., Field Boss on location, International Rys. of Central America, Kellhauer & Rodezno, Contrs., location and construction. *TT 1.5: P 1.5: RC 0.5.* July 1922 to July 1923 on hydro-electric studies and construction, Luz Electrica de Santa Ana, Melendez y Cia, and others, Salvador, Central America, reports on projects, consisting of field studies, general design and estimates, additions and alterations to plants. *TT 1: P 1: RC 0.5: D 0.5.* July to Aug. 1923 Res. Engr., Div. of Highways, Illinois, on concrete construction. *TT 0.1: P 0.1.* Aug. 1923 to date Senior Asst. Engr., United Elec. Coal Cos., Danville, Ill., designing and research for surface mining, in charge of layout and topographical work. *TT 3.5: P 3.5: RC 1.5: D 1.* *TT 10.3: SP 2.1: P 8.2: RC 3.5: D 1.5.* Refers to R. H. Bennett, G. F. Burch, H. A. Camlin, W. J. Wagner, L. F. Whitbeck.

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(11) **BOGEN, ROBERT**, 1815 Cerro Gordo St., Los Angeles, Cal. (Age 24. Born Woodbine, N. J.) 1926 B. S. in Civ. Eng., Cal. Inst. Tech. *TT 2: SP 2.* June to Sept. 1925 Senior Topographical Draftsman, with City Engr., Los Angeles, Cal. June 1926 to Feb. 1927 Jun. C. E. Draftsman with County Surveyor, Los Angeles. Sept 1925 to Feb. 1926 (part of time) Asst. Engr., estimating and minor design on buildings, and Feb. 1927 to date as Field Engr.'s Asst., surveying, emergency design and engineering on building operations, cost and time keeping, with H. M. Baruch Corporation. Since Oct. 1926 (part of time), also Instrumentman with J. J. Reese, Los Angeles. *TT 0.9: SP 0.9. TT 2.9: SP 2.9.* Refers to F. J. Converse, A. Jones, R. R. Martel, W. W. Michael, F. Thomas.

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(6) **BOOMSLITER, GEORGE PAUL**, 21 Wilson Ave., Morgantown, W. Va. (Age 47. Born Grand Haven, Mich.) 1906 B. S. in C. E., Mich. Agri. Coll. 1914 M. S. in C. E., Univ. of Ill. *TT 2: SP 2.* June 1906 to Sept. 1909 Draftsman and Computer on steel bridges, Phoenix Bridge Co., Phoenixville, Pa. *TT 3.2: P 3.2.* Sept. 1909 to Feb. 1920 Instructor in Theoretical and Applied Mechanics, Univ. of Illinois. Summers 1910 and 1912-1914 designing steel bridges and viaducts and concrete structures, Chicago, Milwaukee & St. Paul Ry. Summer 1916 designing and field checking steel bridges, Kansas City Terminal Ry. Co. Summers 1917 and 1918 with Smith, Hauser & MacIsaac, Contrs., as Architectural Supervisor on Camp Meade and Engr. on Curtis Bay, at Ordnance Station. *TT 10.5: P 10.5: RC 0.5: D 1.3.* Feb. 1920 to date Prof. of Mechanics, West Virginia Univ. Summer 1920 designing building footings, Pencoyd Bridge Co. *TT 7.1: P 7.1: RC 7.1: D 0.2. TT 22.8: SP 2: P 20.8: RC 7.6: D 1.5.* Refers to R. P. Davis, W. S. Downs, R. V. Engstrom, J. R. Lambert, C. W. MacCornack, A. N. Talbot, H. M. Westergaard.

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(1) **BOWEN, CLARE MERRIFIELD**, United Fruit Co., Limon, Costa Rica. (Age 34. Born Seattle, Wash.) Nov. 1913 to April 1914 Instrumentman, Chicago, Milwaukee & St. Paul Ry. *TT 0.4: SP 0.4.* Nov. 1914 to Feb. 1915 Asst. County Engr., Maui County, Wailuku, Hawaii, ran pipe line for a town. *TT 0.2: SP 0.2.* Feb. 1915 to April 1919 Plantation Engr., Ewa (Oahu) Plantation Co., surveyed and mapped sugar plantation; located and constructed parts of railroad system; in responsible charge. *TT 4.2: P 4.2: RC 4.2.* Aug. 1919 to March 1920 Plantation Representative, Welch, Fairchild & Co., Manila, Philippine Islands, made investigations of agricultural possibilities of 134 sugar haciendas. *TT 0.6: P 0.6: RC 0.6.* March 1920 to Nov. 1921 Chf. Engr. of Railways, Ma-ao Sugar Central Co., Ma-ao, Occidental Negroes, Philippine Islands, in full charge of location, construction and maintenance of railroad (116 km.), design of temporary wooden structures and culverts. *TT 1.7: P 1.7: RC 1.7: D 1.7.* Oct. 1921 to Sept. 1923 Land Surveying Contr., Philippine Sugar Central Agency, Bacolod, Occidental Negroes, surveyed sugar lands, in charge of field parties. *TT 1.9: P 1.9: RC 1.9.* Nov. 1923 to March 1924 Field Draftsman, California Highway Comm., San Francisco. *TT 0.4: SP 0.4.* March to Oct. 1924 Asst. Engr., Ferro Carril Sud-Pacífico de Mexico, in charge of maintenance of way between Mazatlan, Sinaloa and Tepic, Nayarit, Mexico, ballast, drainage, bridge and culvert construction, design of culverts and small buildings. *TT 0.5: P 0.5: RC 0.5: D 0.5.* Oct. to Dec. 1924 Planetable Topographer with F. C. Herrmann, San Francisco, Cal., making topographic survey and maps of reclamation project near Sacramento, Cal. *TT 0.2: P 0.2.* Feb. to May 1925 Draftsman on tram-line aerial with C. F. Mou, Div. Engr., Redding, Cal. *TT 0.2: SP 0.2.* May to Sept. 1924 Draftsman, Clear Lake, Highlands Co., Lower Lake, Cal., making and computing subdivision layout for summer resort. *TT 0.3: P 0.3: RC 0.3.* Sept. 1925 to Jan. 1926 Topographer and Instrumentman, California Highway Comm., Willits, Cal., topography, levels and traverse work. *TT 0.3: SP 0.3.* Feb. to July 1926 Draftsman with J. B. Lippincott, Los Angeles, Cal., making maps for Laguna Beach County, Water Dist. *TT 0.4: SP 0.4.* July to Nov. 1926 Instrumentman, Sugar Pine Lumber Co., Pinedale, Cal., running preliminary lines, taking topography, etc. *TT 0.3: SP 0.3. TT 11.6: SP 2.2: P 9.4: RC 9.2: D 2.2.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(11) **BRADEN, ALLEN LESLIE**, 123½ South Avenue 63, Los Angeles, Cal. (Age 26. Born Topeka, Kans.) 1922 Rodman on Colorado Highway, at Greeley, Colo. *TT 1: SP 1.* 1923 Supt., Warehouse Mgr. and Yard Foreman, on construction of large concentration mill, Neilhart, Mont. Stearns Roger Mfg. Co. *TT 1: SP 1.* 1924 Asst. Res. Engr., California Highway Comm., at Los Angeles, Cal. *TT 1: P 1.* 1925 Inspector, on construction of sanitary sewers, City of Alhambra, Cal. *TT 1: SP 1.* 1926 Supt. of Constr. of sanitary sewers, with Bebek & Brkich, Los Angeles. *TT 1: P 1: RC 1.* Dec. 1926 to date Sanitation Engr. and Inspector, on construction of sanitary sewers, Los Angeles County. *TT 0.2: P 0.2. TT 5.2: SP 3: P 2.2: RC 1.* Refers to S. V. Cortelyou, G. S. Lane, J. O. Marsh, A. J. Smith, I. S. Voorhees,

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(15) **BRAMLETTE, FREDERICK LEVENWORTH**, 1907 West Magnolia Ave., San-Antonio, Tex. (Age 32. Born Pontotoc, Miss.) 1917 B. S. in C. E., Tex. Agri. and Mech. Coll. *TT 2: SP 2.* June 1915 to March 1916 Chf. of Party on highway surveys, Gregg County, Tex. *TT 0.7: SP 0.7.* March to Sept. 1916 Res. Engr. on highway construction, Red River County, Tex. *TT 0.5: SP 0.5.* July 1919 to Jan. 1922 Asst. County Engr. in charge of surveys, plans, design, construction, etc., of highway systems, of Lamar County, and (after March 1920) Tarrant County, Tex. *TT 2.5: P 2.5: RC 1.3: D 1.2.* Jan. 1922 to date Field Engr., Portland Cement Association, in charge of Southwest Texas territory, promotion, inspection and design. *TT 5.2: P 5.2: RC 2.6: D 2.6.* *TT 10.9: SP 3.2: P 7.7: RC 3.9: D 3.7.* Refers to T. L. Bell, Jr., F. W. Cawthorn, C. A. Clark, T. E. Huffman, D. Lee, W. O. Washington.

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(5) **BRAYTON, JEAN HERKIMER**, 1412 Park Ave., Washington, D. C. (Age 25. Born Washington, D. C.) 1926 B. S., Univ. of Md. *TT 2: SP 2.* June 1926-Feb. 1927 Computer, Engr.'s office, Montauk Beach Development Corporation. *TT 0.7: SP 0.7.* *TT 2.7: SP 2.7.* Refers to F. J. Biele, W. N. Brown, A. N. Johnson, R. B. Morse.

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(5) **BROOKE, ALLAN FARQUHAR**, 1800 E St. N. W., Washington, D. C. (Age 30. Born Sandy Spring, Md.) Aug. to Nov. 1916 Rodman, U. S. Geological Survey. *TT 0.3: SP 0.3.* Feb. 1917 to July 1918 Rodman (1 year) and Chainman, and March 1919 to April 1921 Transitman and Computer, Dist. Govt., Washington, D. C. *TT 3.4: SP 3.4.* Aug. 1918 to Feb. 1919 Private, 472d Engrs., U. S. Army, mapping. *TT 0.5: SP 0.5.* April 1922 to date Prin. Asst. to W. N. Brown, Civ. and Min. Engr., Washington, D. C., being Topographer, Party Chf., Surveyor, etc., and (1½ years) in charge designing, computing and drafting in office, on hydro-electric, land, and club developments, etc. *TT 4.9: SP 1.1: P 3.8: RC 3: D 0.2.* *TT 9.1: SP 5.3: P 3.8: RC 3: D 0.2.* Refers to W. N. Brown, J. B. Gordon, J. H. Hanna, C. B. Hunt, C. E. Pelz, M. T. Singleton, S. L. Thomsen.

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(14) **BRUSH, HAROLD MORTIMER**, 3504 Troost Ave., Kansas City, Mo. (Age 41. Born Stowe, Vt.) 1909 B. S. in C. E., Norwich Univ. *TT 2: SP 2.* June to Sept. 1909 and May to Aug. 1912 with Hassam Paving Co. of Worcester, Mass. as Timekeeper, Materialman and Foreman. *TT 0.5: SP 0.5: RC 0.3.* Sept. 1909 to Dec. 1910 Chainman, Rodman, Topographer, Computer and Instrumentman, Northern Pacific Ry. *TT 1.3: SP 0.8: P 0.5.* Jan. 1911 to May 1912 Instrumentman, City of Pittsfield, Mass., on paving, sewers, water and parks. *TT 1.3: SP 0.6: P 0.7: D 0.5.* Sept. 1912 to May 1913 Asst. Engr. to C. S. Clark, Cons. Engr., Donna, Tex. *TT 0.7: P 0.7: RC 0.7: D 0.5.* May 1913 to April 1914 Chf. Engr., La Donna Canal Co., Donna, on design, location, construction and maintenance of canal system. *TT 1: P 1: RC 1: D 0.5.* May 1914 to March 1917 Jun. Engr., Bureau of Valuation, acting as instrumentman, Computer and Recorder, and Nov. 1917 to March 1919 Special Computer, Interstate Commerce Comm. *TT 4.3: P 4.3: RC 1.7: D 1.7.* March to Nov. 1917 and March 1919 to Nov. 1920 on ranch in Montana. *TT 2.2: SP 2.2.* Nov. 1920 to April 1921 Computer, buildings and bridges, Valuation Dept., St. Louis & San Francisco R. R., St. Louis, Mo. *TT 0.4: P 0.4: D 0.4.* April 1921 to date with Missouri State Highway Dept. as follows: April 1921 to Sept. 1922 Project Engr. on grading, bridging and paving; Sept. 1922 to May 1923 Asst. Div. Engr. on design, construction, maintenance and administration, Kansas City Div.; May 1923 to Jan. 1924 Asst. Constr. Engr., at Jefferson City (Mo.) office; since Jan. 1924 Div. Engr., Kansas City Div., on location, design, construction, maintenance and administration. *TT 6: P 6: RC 5.3: D 2.3.* *TT 19.7: SP 6.1: P 13.6: RC 9: D 5.9.* Refers to C. W. Brown, E. K. Carter, H. C. King, A. C. Lingley, A. W. Mosley, B. H. Plepmeler.

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(1) **BURNS, THOMAS MORRIS**, 26 East Tenth St., New York City. (Age 41. Born Philadelphia, Pa.) 1905 to 1907 Timekeeper, J. G. White & Co., Gen. Contrs., John R. Lee, Sub-Contr., on railway construction. *TT 2.8: SP 2.8.* 1908 to 1913 Office Mgr. and Purchasing Agt. with Thomas Bines Bryson, building foundations, Cleveland, Ohio, and (after 1910) Fourth Ave. Subway construction, Brooklyn, N. Y. *TT 6.3: SP 6.3.* 1914 to 1918 with T. A. Gillespie Co. as follows: 1914 Asst. to Gen. Mgr., Dorchester Ave. Tunnel construction, Boston, Mass.; 1915 Foreman and Inspector and 1916 Supt., Smokeless Powder Dept. at International Loading Corporation, Parlin, N. J., loading munitions for Russian Govt.; 1917 Supt. at Runyon (N. J.) Loading Corporation, assisting in design and construction of smokeless powder unit; 1918 Supt. at Oliver Loading Co., Runyon, designed Booster Dept., and assisted in construction of all units. *TT 4.9: SP 1.6: P 3.3: RC 2.2: D 1.1.* 1919 Asst. Supt., Shand Eng. Co., Ltd., Sandwich, Ont., Canada, constructing concrete pipe-line for

water supply. *TT 1.2: P 1.2: RC 1.2.* 1920 to 1923 Secy. and Gen. Sales Mgr., Pacific Coast Motor Sales Co., Inc., San Francisco, Cal. *TT 3.8: SP 3.8.* 1924 to date with T. A. Gillespie Co., $2\frac{1}{2}$ years as Pacific Coast Representative in charge of East Jersey Pipe Co., on fabrication of approx. 40 miles lock-bar steel pipe and field operations, Portland, Ore., Tacoma and Seattle, Wash., and Willamette Iron & Steel Works Plant, Portland, past 10 months Sales Engr., East Jersey Pipe Co., at New York City. *TT 3: P 3: RC 3.* *TT 22: SP 14.5: P 7.5: RC 6.4: D 1.1.* Refers to G. H. Fenkell, W. A. Kunigk, F. M. Randlett, H. Smith, E. A. Yates.

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(10) **BURNUM, HUBBARD DENSON**, Box 71, Decatur, Ala. (Age 35. Born Cullman, Ala.) May 1911 to Sept. 1913 Axeman, Rodman and Concrete Inspector, and Sept. 1913 to Feb. 1915 on survey of track materials (Inventory), Louisville & Nashville R. R. *TT 3.8: SP 3.8.* Feb. 1915 to March 1916 Axeman, Rodman and Chainman with U. S. Govt. Muscle Shoals. *TT 1.1: SP 1.1.* March 1916 to May 1917 (except 1 month Chainman, Interstate Commerce Comm.) Instrumentman, L. & N. R. R. *TT 1.1: SP 1.1.* May 1917 to Aug. 1919 with U. S. Army, Co. D, 309th Engrs. promoted to Master Engr.; Commissioned 2d Lieut., Corps of Engrs., A. E. F. *TT 2.2: SP 2.2.* Aug. 1919 to Feb. 1920 Draftsman and (3 months) Chf. of Party on location, Kentucky Highway Dept. *TT 0.3: SP 0.3.* Feb. 1920 to date with Alabama Highway Dept. as follows: Feb. 1920 to March 1921 Chf. of Party on location and plans of highways; March 1921 to April 1922 Res. Engr. on construction, Lauderdale and Cullman Counties, grading, drainage and surfacing on Federal Aid work; since April 1922 Asst. Div. Engr., since Jan. 1924 being Prin. Asst. Div. Engr. (1st and 2d Divs., 33 counties). *TT 7.2: P 7.2: RC 7.2: D 4.* *TT 15.7: SP 8.5: P 7.2: RC 7.4: D 4.* Refers to R. P. Boyd, W. P. Butler, H. C. Wells, W. C. West, W. G. White.

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(9) **CHANEY, RALPH CLARKE**, 52 Fallis Road, Columbus, Ohio. (Age 42. Born Bourneville, Ohio.) June 1906 to date with Eng. Dept., Columbus, Ohio, engaged as follows: June to Sept. 1906 Rodman; Sept. 1906 to April 1910 Transitman, acting as Instrumentman and Chf. of Level Party, etc.; April 1910 to April 1917 Asst. Engr., April to Nov. 1917 Res. Engr., and Nov. 1917 to Feb. 1923 Masonry Engr., on plans, estimates and location of street paving, surveys and plans for flood control, design and construction of bridges, sewers, retaining walls, dam, etc.; since Feb. 1923 Engr.-in-Chg. on bridges and special work, surveys, studies, plans and contract supervision of bridges, precise geodetic survey, etc.; since Feb. 1926 also Engr., Planning Comm. *TT 20.9: SP 2.9: P 18: RC 7.8: D 4.* Refers to O. Bonney, W. Braun, F. H. Eno, J. H. Gregory, F. W. Jennings, C. T. Morris, J. C. Prior, R. H. Randall, G. D. Whitmore.

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(4) **CHAPIN, HENRY MORRISON**, 611 Finance Bldg., Philadelphia, Pa. (Age 48. Born Ashtabula, Ohio.) Sept. 1903 to March 1906 student, Eng. Dept., Univ. of Mich. *TT 0.6: SP 0.6.* March 1901 to April 1902 Rodman, until Oct. 1901 with P. & O. Ry. (Elec.), then with Pennsylvania Steel Co. *TT 1.1: SP 1.1.* April 1902-Sept. 1903 Rodman and Leveler, Lake Shore & Michigan Southern Ry. *TT 1.5: SP 1.5.* July-Sept. 1904 Inspector on brick pavement at Bryan, Ohio. May to Sept. 1905 Draftsman on design of sewer system for Greenville, Mich. March 1906 to July 1909 with New York Central Lines, until Feb. 1907 as Instrumentman, then Res. Engr. in charge of 11 miles of construction, pile driving, etc., and after Sept. 1908 Supt. of Constr. and Chf. of Party on grading, masonry and bridges. *TT 3.2: SP 0.9: P 2.3: RC 2.3.* July 1909 to Feb. 1910 Draftsman, Cambria Steel Co., on design of dams, tunnels, steel pipe-lines and special equipment. *TT 0.6: P 0.6: D 0.6.* Feb. 1910-Feb. 1912 in private practice as Archt. and Engr. on schools, churches, industrial plants, sewers, paving, developments. *TT 2: P 2: RC 1: D 1.* March to Sept. 1912 in charge of fireproofing on Grand Central Terminal, New York City, cement-gun work, concrete, placing reinforcement. *TT 0.5: P 0.5: RC 0.5.* Sept. 1912 to March 1913 Designing Draftsman, Lehigh & New England R. R. Co., on roundhouses, shops, gravity yards and terminals. *TT 0.5: P 0.5: D 0.5.* March 1913-March 1915 Chf. Draftsman and Supt. with Ernst McGeorge, Cons. Engr., Cleveland, Ohio, design and construction, office buildings and power-plants. *TT 2: P 2: RC 1: D 1.* Nov. 1915 to Feb. 1917 Squad Boss on design, and May 1920 to March 1921 Checker, New Jersey Zinc Co., furnaces, chemical plants, etc. *TT 2.1: P 2.1: RC 0.8: D 1.3.* Feb. 1917 to May 1920 Computer, Bureau of Surveys, Philadelphia, on design and checking of reinforced concrete viaducts, engine terminals, shops, yards, paving, sewers, estimates, specifications, criticism of plans, and (during war) in charge of bridge construction. *TT 3.2: P 3.2: RC 2.8: D 0.4.* Aug. 1921 to Jan. 1922 Chf. Inspector, Pennsylvania State Highway Dept., in charge of concrete road construction. *TT 0.4: P 0.4: RC 0.4.* June to Dec. 1922 Supt. of Constr. for C. B. Comstock, Archt., on construction of a packing and a power plant, installation of machinery and initial operation, including

refrigeration, heating, ventilation and lighting. *TT 0.5: P 0.5: RC 0.5.* Jan. 1923 to May 1925 Supt. of Constr., Univ. of Pennsylvania, on addition (\$400 000) to University Museum and building Bennett Hall (\$650 000). *TT 2.3: P 2.3: RC 2.3.* May to Sept. 1925 Structural Engr., The Austin Co., Gen. Contrs., on design of industrial and power plants. *TT 0.3: P 0.3: RC 0.3.* Sept. 1925 to date Constr. Engr., Bureau of Eng., Philadelphia, on design and construction of bridges, elimination of grade crossings, railroads terminal improvements, specifications and estimates. *TT 1.5: P 1.5: RC 1.5. TT 22.3: SP 4.1: P 18.2: RC 13.4: D 5.1.* Refers to J. H. Ames, P. M. Corry, C. E. Curtis, J. A. Donahey, J. C. L. Fish, F. W. Gilcreast, E. W. Renz, H. E. Riggs, H. T. Shelley, J. W. Silliman, A. G. Singer, C. E. H. Smith, J. I. Tucker, R. D. Tyler.

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(4) **CHRISTENSEN, EINAR**, 1600 Arch St., Philadelphia, Pa. (Age 30. Born Randers, Denmark.) 1919 B. S. in Ch. E., Royal Tech. Coll., Copenhagen, Denmark. *TT 2: SP 2.* Spring 1918 to Feb. 1919 Chemist, Asst. to Vald. H. G. Olsen, Danish Geological Survey, Farvergade, and March-July 1919 Chemist, Statevs Planteavls Laboratorium, Henrik Steffensvej, Copenhagen, Denmark. *TT 1.3: SP 1.3.* Nov. 1919 to Feb. 1921 Chemist, Central Dyestuff & Chemical Co., Newark, N. J. *TT 1.2: SP 1.2.* Feb. 1921 to Aug. 1926 Chf. Engr., Cinder Products Corporation (4 $\frac{1}{2}$ years) and Cinder Concrete Corporation (1 year), Philadelphia, Pa., on design, erection and operation of plants for manufacture of Cinder concrete building units. *TT 5.5: P 5.5: RC 5.5.* Aug. 1926 to date Mgr., Eng. Dept., National Bldg. Units Corporation, Philadelphia, a consolidation of 18 cinder block plants. *TT 0.7: P 0.7: RC 0.7. TT 10.7: SP 4.5: P 6.2: RC 6.2: D 6.2.* Refers to J. W. F. Bennett, W. J. Douglas, E. E. Halmos, W. F. Lockhardt, R. P. Miller.

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(1) **CLOOS, GEORGE PHILLIP**, 9416 Park Lane South, Woodhaven, New York. (Age 23. Born Brooklyn, N. Y.) 1924 B. S. in C. E., N. Y. Univ. *TT 2: SP 2.* June to Sept. 1922 Rodman, White Constr. Co. June 1924 to April 1925 Rodman, Delaware, Lackawanna & Western R. R. *TT 0.7: SP 0.7.* April 1925 to date Draftsman (8 months), Inspector (over 1 year) and Jun. Engr. (1 month), Structural Bureau, New York & Queens Elec. Light & Power Co. *TT 1.8: SP 1.8. TT 4.5: SP 4.5.* Refers to H. E. Breed, A. Haring, E. G. Hooper, C. T. Schwarze, C. H. Snow.

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(1) **COHEN, HAROLD**, 272 North Broad St., Elizabeth, N. J. (Age 27. Born Somerville, N. J.) 1921 M. E., Stevens Inst. Tech. *TT 2: SP 2.* July 1921 to Jan. 1922 Inspector, State Highway Comm., Trenton, N. J. *TT 0.5: SP 0.2: P 0.2: RC 0.2.* March 1922 to July 1923 Asst. Bldg. Mgr., L. Tanenbaum, Strauss & Co., New York City. *TT 1.2: SP 0.5: P 0.7: RC 0.7.* Aug. 1923 to date Draftsman, Sales Engr. and Gen. Mgr., Army Steel Constr. Co., Elizabeth, N. J. *TT 3.5: SP 0.5: P 3: RC 2: D 0.5. TT 7.3: SP 3.3: P 4: RC 3: D 0.5.* Refers to J. C. Bentley, L. P. Gaston, C. O. Gunther, A. B. Miller, C. B. Wigton.

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(3) **COLLUM, THAD LUMPKIN**, 201 East Water St., Syracuse, N. Y. (Age 28. Born Corsicana, Tex.) 1921 C. E., Cornell Univ. *TT 2.* June to Oct. 1918 Levelman, Central Constr. Co. of Harrisburg, Pa., on construction of Edgewood (Md.) Arsenal, acting as Transltman. June to Oct. 1920 student in rubber manufacture, U. S. Rubber Co., Woonsocket, R. I. Oct. 1920 to June 1923 Instructor, Cornell Univ., concrete laboratory, structural design, theory and design of concrete arches, design of reinforced concrete buildings, bridges, etc. June to Sept. 1921 Jun. Asst. Engr., New York State Dept. of Highways, Watertown, N. Y., surveys and computations. June to Sept. 1922 Draftsman, Concrete Steel Co., Syracuse, N. Y., making erection plans for reinforcing in buildings, bridges and other structures. *TT 2.* June 1923 to date Designer for Guy L. Noble, Cons. Engr., Syracuse, on reinforced concrete factory buildings, warehouses, etc., in charge of drafting room. *TT 3.7: RC 3.7: D 2.5. TT 7.7: RC 3.7: D 2.5.* Refers to F. A. Barnes, E. N. Burrows, G. A. Helmstetter, G. L. Noble, J. E. Perry, L. C. Urquhart, C. L. Walker.

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(1) **COOKE, MARTIN WALTER**, 256 Fifth St., Hoboken, N. J. (Age 25. Born Hoboken, N. J.) 1925 M. E., Stevens Inst. Tech. *TT 2: SP 2.* Aug. 1925 to May 1926 Asst. Engr., Stillman Delehanty Ferris Co. *TT 0.8: P 0.8.* May 1926 to date Foreman, Rosoff Subway Constr. Corporation. *TT 0.8: P 0.8: RC 0.8. TT 3.6: SP 2: P 1.6: RC 0.8.* Refers to H. J. Alexander, C. O. Gunther, A. C. Humphreys, H. C. Sanford, R. A. Shaller, F. W. Stiefel.

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(1) **COPE, JOHN JOSEPH**, 526 West 151st St., New York City. (Age 33. Born New York City.) May 1911 to Nov. 1912 Chairman and Instrumentman, Ward Carpenter & Co., Tarrytown, N. Y., on surveys and sewer construction. *TT 1.5: SP 1.5.* Nov. 1912 to July 1918 Jun.

Asst. and Jun. Engr., Public Service Comm., First Dist., New York State, and its successors, as Transitman and Chf. of Party on subway construction in New York City. *TT 5.6: SP 2: P 3.6.* July to Dec. 1918 Transitman with Cohen & Ehrhardt, New York City, on cantonment construction. *TT 0.4: SP 0.4.* Dec. 1918 to date Jun. Engr. and Asst. Engr., Board of Transportation, New York City, on subway construction; past 4 years being Prin. Asst. to Sec. Engr. *TT 8.3: P 8.3: RC 4: D 1.* *TT 15.8: SP 3.9: P 11.9: RC 4: D 1.* Refers to A. E. Clark, J. J. Durfee, J. H. Myers, G. Paaswell, P. Sander, C. D. Searle, I. J. Stander.

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(10) CORNELL, ARTHUR LELAND, Jr., P. O. Box 738, Stuart, Fla. (Age 27. Born Harrisonburg, Va.) Aug. 1916 to March 1917 Chainman, City of Richmond, Va., on surveys, *TT 0.7.* April 1917 to Jan. 1920 Rodman, Richmond, Rappahannock & Northern Ry. (2 months), and Atlantic Coast Line R. R. Co. *TT 2.8.* Feb. to June 1920 Engr., Cumberland Ry. & Power Co., Raleigh, N. C., on small power-plant construction. *TT 0.4: RC 0.4.* July 1920 to April 1921 Topographer, North Carolina State Bldg. Comm., surveying and mapping state institutions. *TT 0.8.* May 1921 to Nov. 1923 Instrumentman and Res. Engr., North Carolina State Highway Comm., on construction. *TT 2.6: RC 2.* Dec. 1923 to March 1924 Res. Engr. with H. A. Underwood, Cons. Engr., on building construction, state institutions. *TT 0.3: RC 0.3.* April 1924 to date Instrumentman and Asst. Engr., Florida East Coast Ry. Co., on construction, double track work. *TT 2.9: RC 2.3.* *TT 10.6: RC 5.1.* Refers to O. B. Bestor, J. J. Gantt, H. N. Rodenbaugh, H. C. Scott, D. Ulrich, H. A. Underwood.

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(7) DEIBLER, GEORGE WASHINGTON, 306 Court House, Duluth, Minn. (Age 33. Born Lakeville, Minn.) June 1912 to Feb. 1914 Rodman and Instrumentman and April to Aug. 1915 Instrumentman, Minneapolis, St. Paul, Rochester & Dubuque Elec. Traction Co., some drafting. *TT 2.1: SP 2.1.* March 1914 to Feb. 1915 Instrumentman, Minneapolis & Central Minnesota Ry. (Elec. Line), 6 months in charge of party on preliminary location. *TT 1: SP 1.* Aug. to Dec. 1915 Asst. Topographer on location and Aug. to Nov. 1917 Asst. Pilot Engr., on government valuation of bridges and buildings on Wisconsin Central Div., Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. *TT 0.7: SP 0.7.* April 1916 to July 1917 Engr. in Chg. Consolidated Lumber Co., Manistique, Mich., location and construction of logging railroad lines for timber operations, city platting, land subdivision and industrial site surveys, establishing and laying out water and sewer grades on new subdivisions. *TT 1.3: P 1.3: RC 1.3: D 0.5.* Nov. 1917 to June 1919 with 23d Regt. of Engrs., U. S. Army, 1½ years overseas, on construction of double-track railroad bridge over Loire River at Never, France; from Dec. 1918 to June 1919 on highway maintenance. *TT 1.6: SP 1.6.* July to Dec. 1919 Engr. in Chg., Home Investment Co., Manistique, city platting and land subdivision. *TT 0.5: P 0.5: RC 0.5.* Feb. 1920 to date Asst. Engr., St. Louis County Highway Dept., Duluth, Minn., supervision of plans on Federal Aid, state and county highway construction, including approx. 100 miles of pavement on state trunk highways. *TT 7: P 7: RC 7: D 4.* *TT 14.2: SP 5.4: P 8.8: RC 8.8: D 4.5.* Refers to A. J. Bawden W. D. Belsell, T. F. McGilvray, J. L. Pickles, S. B. Shepard.

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(1) DEVLIN, JOHN JOSEPH, 347 Madison Ave., New York City. (Age 38. Born Dedham, Mass.) Licensed Prof. Engr., New York State. April 1910 to April 1912 Rodman, Boston Elevated Ry. Co., Inspector, Boston Transit Comm., Engr. Asst. to D. A. Harrington, C. E., and Draftsman, Boston Edison Co. *TT 2: SP 2.* May to Dec. 1912 Inspector, Grand Trunk Ry., supervision of construction on section of Southern New England Line, estimates and design of minor structures (abandoned). *TT 0.7: P 0.7: RC 0.7: D 0.2.* Feb. 1913 to June 1914 Inspector, Transitman and Senior Asst., Springfield (Mass.) Bridge Office, Boston & Albany R. R., structural design, Resident on bridge construction, including erection under traffic, foundations in coffer dam, etc. *TT 1.4: P 1.4: RC 1.4: D 0.4.* July 1914 to Feb. 1915 Engr., New England Constr. Co., supervising contract for construction of State pier at New London, Conn., etc. (steam shovel excavation, concrete and masonry sea walls). *TT 0.7: P 0.7: RC 0.7.* March to Sept. 1915 Concrete Supt., T. Stuart & Son Co., Cumberland County Bridge (reinforced concrete), Portland, Me. *TT 0.6: P 0.6: RC 0.6.* Oct. 1915 to Feb. 1916 Supt., Bay State Dredging & Constr. Co., in charge of construction of Rialto Bridge (concrete and steel) at Montpelier, Vt., and foundation work in Massachusetts. *TT 0.4: P 0.4: RC 0.4.* June to Dec. 1916 Asst. Supt., Old Colony Constr. Co., in charge of construction of Waban Hill reservoir (reinforced concrete, covered) at Newton, Mass. *TT 0.5: P 0.5: RC 0.5.* Jan. 1917 Special Engr., Vaughn Engrs. of Boston, investigating progress on a hydro-electric project. *TT 0.1: P 0.1: RC 0.1.* Feb. to May 1917 Inspector, J. R. Worcester Co. of Boston, on foundations of Quincy Market cold-storage warehouse, reinforced concrete in tide-water. *TT 0.3: P 0.3: RC 0.3.* May 1917 to Aug. 1920 with U. S. Army, A. E. F., as Co. Commander, 301st Engrs., Office of Chf. Engr., 2d Army Staff, Commanding Officer, 465th

Bridge Trains and 543d Engrs., Utilities Officer, Army Supply Base, Norfolk and Newport News, Va., and Camp Knox, Ky., as Commanding Officer, 1st Engr. Detachment and Contr. Officer at last-named; Major, Corps of Engrs., Reserve. *TT 3.3: P 3.3: RC 3.3: D 1.5.* Oct. 1920 to April 1925 Asst. Engr., Valuation Dept., Lehigh Valley R. R., investigations, reports and cost analysis for Federal valuation; Chf. of bridge and grade separation surveys. *TT 4.5: P 4.5: RC 4.5.* May 1925 to March 1926 Asst. to Bridge Valuation Engr., New York Central Lines, on bridge valuation problems in Washington, conferring with Interstate Commerce Comm. Engineers for adjustment of values. *TT 0.9: P 0.9: RC 0.9.* April 1926 to date Engr., Portland Cement Association, New York Dist. Office, Specialist on concrete construction. *TT 0.9: P 0.9: RC 0.9.* *TT 16.4: SP 2: P 14.4: RC 14.4: D 2.1.* Refers to A. W. Carpenter, J. P. Hogan, E. E. Pettee, L. E. Robbe, W. J. Shea, J. R. Slattery, W. E. Swift, B. H. Walt.

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(9) DOLLARHYDE, WILLIAM OAKLEY, Salyersville, Ky. (Age 35. Born Paintsville, Ky.) 2 years student, International Correspondence Schools. 1911 to 1916 Asst. Div. Engr., Consolidation Coal Co., Van Lear, Ky., on mine construction and operation. *TT 5: SP 2: P 3: RC 3.* 1916 to 1919 Field Engr., Baltimore & Ohio R. R. Co., Baltimore, Md., in charge of location and construction. *TT 2.7: P 2.7: RC 2.7.* 1919 to 1921 Chf. Engr., Big Sandy & Kentucky River Ry. Co., Ashland, Ky., in charge of designs, location and construction. *TT 2.4: P 2.4: RC 2.4.* 1921 to date Res. Engr., Louisville & Nashville R. R. Co., Louisville, Ky., in charge of location and construction, general office work. *TT 4.7: P 4.7: RC 4.7.* *TT 14.8: SP 2: P 12.8: RC 12.8.* Refers to R. N. Begien, W. H. Courtenay, G. R. Smiley, E. Stimson, C. B. Wilson.

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(7) DONNELLY, THOMAS LINUS KEITH, 915 North Van Buren St., Bay City, Mich. (Age 44. Born Bay City, Mich.) 1904 C. E., Notre Dame Univ. 1904 to 1906 Rodman and Instrumentman, Michigan Central R. R. *TT 1.7: SP 1.7: RC 0.3.* 1906 to 1908 Instrumentman, Chicago & North Western Ry. (6 months) and Rock Island. *TT 1.7: SP 1.7: RC 0.5.* 1908 Asst. Engr. with City Engr., Gary, Ind. (6 months), and on building construction for Constr. Q. M., U. S. Army (3 months). *TT 0.7: P 0.7: RC 0.5: D 0.2.* 1909 Supt., Am. Asphalt & Rubber Co. *TT 0.5: P 0.5: RC 0.5.* 1909 to 1914 Asst. Engr., M. C. R. R., on maintenance of way and construction. *TT 4.6: P 4.6: RC 4.6: D 2.5.* 1914 to 1915 Field Engr. with M. E. Cooley, on public utility appraisal. *TT 0.9: P 0.9: RC 0.9.* 1915 to 1917 in private practice as Civ. Engr. and (1 year) Asst. Prof. of Civ. Eng., Detroit Univ. *TT 2.2: P 2.2: RC 2.2: D 2.2.* 1917 to 1919 with U. S. Army, as Asst. Engr. with Constr. Q. M., on cantonment construction and (1½ years) Capt., Engrs., being Co. Commander on hospital and camp construction and Div. Engr. (Chemin de Fer de l'Est), on Maintenance. *TT 2.1: P 2.1: RC 2.1.* 1919 to 1920 in private practice as Civ. Engr. on dike construction. *TT 0.3: P 0.3: RC 0.3.* 1920 to 1921 Field Engr. with Riggs & Anderson on public-utility appraisal. *TT 1.2: P 1.2: RC 1.2.* 1921 to 1924 Engr. with W. J. Meagher, Contr., on highway construction, dredging, docking and pile foundations. *TT 3.2: P 3.2: RC 3.2: D 0.2.* 1924 to 1927 in private practice, until 1925 as Contr. on highway construction, then Civ. Engr. on drainage, summer resort, cemeteries and sewers. *TT 2.3: P 2.3: RC 2.3: D 1.1.* At present Engr. with H. E. Riggs on railroad depreciation analysis. *TT 0.2: P 0.2.* *TT 21.6: SP 3.4: P 18.2: RC 18.6: D 6.3.* Refers to J. F. Deimling, K. A. Farrell, G. H. Harris, W. O. Houston, O. A. R. V. Jensen, A. P. Melton, H. E. Riggs, W. C. Sadler, E. M. Walker, S. D. Williams.

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(9) DORTCH, NATHANIEL FOSTER, Dam 50, Ohio River, Caseyville, Ky. (Age 27. Born Carter's Creek, Tenn.) Sept. 1916 to April 1918 student, Georgia School of Technology. *TT 0.6: SP 0.6.* Sept. 1919 to March 1921 with U. S. Engr. Dept. as Rodman, Chairman, Instrumentman, Draftsman and Inspector on construction of Wilson Dam, Florence, Ala. *TT 1.6: SP 1.6.* March to June 1921 with Evans & Meade, Engrs., Florence, Ala., as Rodman, Chairman and Instrumentman on highway location. *TT 0.2: SP 0.2.* June 1922 to Dec. 1923 with U. S. Engr. Dept., until Sept. 1922, as Chf. of party on hydrographic surveys on Lower Ohio River, Louisville Dist., then Chf. of survey party on construction layout, Draftsman and Shift Engr., Wilson Dam, Florence, Ala. *TT 1.5: P 1.5.* Jan. to April 1924 Contr.'s Engr., Louisville Gas & Elec. Co., Louisville, Ky., layout and inspection of work and materials, on construction of electric sub-station. *TT 0.2: P 0.2.* June 1924 to date with U. S. Engr. Dept., Louisville Dist., on Dam 50, Ohio River, until Sept. 1925 as Chf. of Survey Party on layout of camp, roads, tracks, sewer and water lines, lock and dam construction, and since then Senior Inspector in responsible charge of layout and inspection of lock and dam construction; at present Jun. Engr. *TT 2.5: P 2.5: RC 1.2.* *TT 6.6: SP 2.4: P 4.2: RC 1.2.* Refers to W. M. Hall, J. W. Kelly, C. W. Kutz, W. H. McAlpine, R. B. Tinsley.

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(1) **EAST, LEWIS RONALD**, 159 Tooronga Road, East Malvern, Victoria, Australia. (Age 27. Born Hawthorn, Victoria, Australia.) Municipal Surveyor, Australia, 1922 B. C. E., and 1924 M. C. E., Melbourne Univ. *TT 2: SP 2.* Jan. to March 1917 Jun. Analyst, Dept. of Federal Govt. Analyst, Melbourne, butters, oils, hops, etc. *TT 0.1: SP 0.1.* During war (1½ years) with Australian Flying Corps in France and Germany. Feb. to March 1921 Asst., Victorian Country Roads Board, Melbourne, office and field work for road location and letting of contracts. *TT 0.2: SP 0.2.* April to Sept. 1922 Eng. Asst., Sept. 1922-June 1923 Asst. Engr., and June 1923 to date Engr., Victorian State River and Water Supply Comm., on design, construction and administration of irrigation and drainage works, water supply, etc., since Sept. 1922 in responsible charge. *TT 4.7: P 4.7: RC 4: D 2.1.* *TT 7: SP 2.3: P 4.7: RC 4: D 2.1.* Refers to J. F. Ramsbothan. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

422

(14) **ELCOCK, EDWIN SILL**, County Engr., Eldorado, Kans. (Age 29. Born Belle Center, Ohio.) A. B., Coll. of Emporia, Kans. 1921 B. S. in Civ. Eng., Kans State Agri. Coll. *TT 2: SP 2.* July to Sept. 1920 Transitman, and Inspector on concrete bridge and culvert work, etc., Meade County, Kans. July to Nov. 1921 Plant Inspector at brick plant, Crawford County, Kans., for Res. Engr. on state highway work, making rattler test of brick and assisting field party as Transitman and Levelman. *TT 0.3: SP 0.3.* Nov. 1921 to April 1923 with Butler County, Kans., until Aug. 1922 as Transitman, Computer, Draftsman and Inspector, on surveys, plans, inspecting concrete on bridge work, etc., then Asst. County Engr. in charge of field surveys for road work and designing county bridge work. *TT 1.1: SP 0.9: P 0.2: RC 0.2.* April to June 1923 Asst. Project Engr., Missouri Highway Comm., staking earth road construction and computing earthwork. *TT 0.3: SP 0.3.* July 1923 to date with Butler County, until Nov. 1923 as Inspector on concrete pavement, then Asst. County Engr. in responsible charge of field surveys for county bridges and plans for Federal aid road construction, and since Aug. 1925 County Engr. in responsible charge of county road construction and maintenance. *TT 3.7: SP 0.3: P 3.4: RC 2.6: D 2.6.* *TT 7.4: SP 3.8: P 3.6: RC 2.8: D 2.6.* Refers to H. D. Barnes, W. V. Buck, L. E. Conrad, O. J. Eldmann, F. W. Epps, F. F. Frazier, M. W. Furr.

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(1) **FIELD, FRANCIS EUGENE**, 24 East Thirty-Ninth St., New York City. (Age 27. Born Asheville, N. C.) 1922 A. B., Williams Coll., Williamstown, Mass. 1925 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Nov. 1922 to Feb. 1923 Rodman and Instrumentman with C. E. Waddell, Asheville, N. C. *TT 0.3: SP 0.3.* Jan. 1926 to date Structural Engr., Purdy & Henderson Co., New York City, on design and checking of steel, reinforced concrete and wood structures, principally on steel for tall buildings. *TT 1.1: P 1.1: D 0.6.* *TT 3.4: SP 2.3: P 1.1: D 0.6.* Refers to H. L. Bowman, N. A. Richards, T. F. Russum, H. V. Spurr, A. H. Vanderhoof.

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(1) **FISH, GILBERT DUDLEY**, 299 Madison Ave., New York City. (Age 34. Born New York City.) 1913 C. E., Columbia Univ. *TT 2: SP 2.* July 1913 to July 1915 Asst. Instructor in Civ. Eng., and Asst. in Astronomy, Columbia Univ. *TT 2: SP 0.3: P 1.7.* Oct. 1915 to July 1917 Research Engr. with Dr. F. L. Stanton, New York City, on application of mechanical and mathematical methods to orthodontia (dentistry). *TT 1.7: P 1.7.* July 1917 to Sept. 1919 Capt. and Major, Corps of Engrs., U. S. Army (Regular), with 7th Engrs. in France and later in office of Chf. of Engrs., Washington; after Armistice commanded engineer troops in Hawaii; in charge of triangulation survey of Oahu Island. *TT 2.2: P 2.2: RC 2.2.* Nov. 1919 to Feb. 1920 Structural Engr., Constr. Div., War Dept., at Picatinny Arsenal, in charge of design of several buildings (reported to Chf. Engr., Constr. Div.). *TT 0.2: P 0.2: D 0.2.* Feb. to July 1920 in private practice, at New York City, building design, etc. *TT 0.4: P 0.4: D 0.4.* Sept. 1920 to April 1921 Mech. Engr., Nitrogen Research Laboratory, Ordnance Dept., U. S. Army, at Washington, D. C., on design of new equipment for government nitrates plant. *TT 0.7: P 0.7: D 0.7.* April 1921 to Feb. 1926 Engr. in Chg. designing and inspecting steel and reinforced concrete buildings, office of Elwyn E. Seelye, Cons. Engr., New York City, in charge of design of about 100 buildings. *TT 4.7: P 4.7: D 4.7.* Feb. 1926 to date private consulting practice, structural steel, New York City, part of time Cons. Engr. for Westinghouse Elec. & Mfg. Co., on development of arc welded construction for steel buildings. *TT 1: P 1: D 1.* *TT 14.9: SP 2.3: P 12.6: RC 2.2: D 7.* Refers to W. H. Burr, J. H. Edwards, J. K. Finch, D. E. Moran, G. E. Strehan.

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(15) **FOCHT, JOHN ARNOLD**, 2823 Salado, Austin, Tex. (Age 33. Born Sweetwater, Tex.) 1914 C. E., Univ. of Tex. *TT 2: SP 2.* July 1914-Sept. 1915 and June 1916-April 1917 with City of Sweetwater, Tex., until Sept. 1915 as Asst. Engr., construction of water-works

system, consisting of impounding earth dam, pipe line, distribution system, steel standpipe, etc., and after June 1916 City Engr. on completing plans for sewage-disposal plant and in complete charge of construction of the plant and outfall. *TT 2.2: SP 1: P 1.2: RC 1.2: D 0.2.* Oct. 1915 to May 1916 graduate student, Eng. Dept., Univ. of Texas. *TT 0.7: SP 0.7.* May 1917 to April 1919 with U. S. Army, until Aug. 1917 at First Officers' Training Camp, Leon Springs, Tex., then 2d Lieut., Co. B, 315th Engrs., 90th Div. at Camp Travis, Tex., from June 1918 to Feb. 1919 overseas building barracks, repairing roads, building wire entanglements, etc.; Nov. 1918 became 1st Lieut. *TT 1.9: P 1.9.* May 1919-May 1920 Asst. County Engr. on surveys and plans for and June 1920-Dec. 1923 County Engr. in charge of construction of road system (\$1 000 000), Rockwall County, Tex. *TT 4.7: SP 1.1: P 3.6: RC 3.6: D 0.5.* Jan. 1924-Aug. 1926 County Engr., Nolan County, Tex., in charge of surveys, plans and construction of 50 miles of state highways and 75 miles of county roads. *TT 2.7: P 2.7: RC 2.7: D 1.4.* Sept. 1926 to date Prof. of Highway Eng., Univ. of Texas. *TT 0.5: P 0.5: RC 0.5.* *TT 14.7: SP 4.1: P 10.6: RC 8: D 2.1.* Refers to E. C. H. Bantel, C. A. Clark, J. Montgomery, T. U. Taylor, G. G. Wickline.

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(11) FRICKER, FELIX OSCAR, 5320 Oakland St., Los Angeles, Cal. (Age 26. Born Philadelphia, Pa.) 1926 B. S. in Civ. Eng., Cal. Inst. Tech. *TT 2: SP 2.* June to Dec. 1926 Draftsman, Surveying and Map Dept., Shell Co. of California, Los Angeles, Cal. *TT 0.5: SP 0.5.* Dec. 1926 to date Draftsman and Engr. Asst., with Quinton, Code & Hill, Cons. Engrs., Los Angeles. *TT 0.2: SP 0.2.* *TT 2.7: SP 2.7.* Refers to P. Bauman, E. A. Burt, R. A. Hill, R. R. Martel, W. W. Michael, F. Thomas, J. A. Trudeau.

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(10) FULTON, CECIL CLEMENT, Jr., P. O. Box 1252, Asheville, N. C. (Age 40. Born Dover, Del.) 1906 B. S. C. E., Del. Coll. *TT 2: SP 2.* Summers 1903-1906 Rodman, Pennsylvania R. R. Sept. to Nov. 1906 Draftsman, Norfolk & Western Ry. *TT 0.2: SP 0.2.* Nov. 1906 to Sept. 1907 Transitman, Winston-Salem (N. C.) Southbound Ry. and Elkin & Allegheny Ry. *TT 0.7: SP 0.7.* Sept. 1907 to Oct. 1908 Draftsman in office of Chf. Engr., and Transitman and Tunnel Inspector on construction of 1st Div., Carolina, Clinchfield & Ohio Ry., Johnson City, Tenn. *TT 1.1: SP 1.1.* Oct. 1908 to Jan. 1918 Res. Engr. and Asst. Engr. for Gilbert C. White, Cons. Engr., Durham, N. C., in charge of design and construction of municipal improvements and other public and private works in North Carolina, South Carolina and Virginia. *TT 9.2: P 9.2: RC 7: D 5.* Jan. 1918 to April 1919 with E. I. duPont de Nemours & Co., Wilmington, Del., as Buyer of pumps, mixers, nitrators, cotton drying apparatus, refrigeration equipment, etc.; one of two handling transactions between Company and War Industries Board, War Trade Board and Priorities Committee. April 1919-Dec. 1920 Asst. Mgr. in charge, Alton (Ill.) Plant, Gillespie-Eden Mfg. Co. of New York, electric washing machines. Feb. 1921 to date member of firm and Vice-President Gilbert C. White Co., Cons. Engrs., Durham, N. C., in complete charge of branch office at Asheville, N. C., municipal improvements, etc. *TT 6: P 6: RC 6: D 5.* *TT 19.2: SP 3.9: P 15.3: RC 13: D 11.* Refers to F. J. Blythe, C. E. Boesch, W. C. Olsen, R. E. Snowden, C. E. Waddell, G. L. Watson, G. C. White.

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(1) GATYAS, JOSEPH ANDREW JOHN, 534 Poplar St., Roselle, N. J. (Age 20. Born Brooklyn, N. Y.) Sept. 1922 to June 1925 (last year at night) Student in Civ. Eng., Hefley Inst., Brooklyn, N. Y. July 1924 to Jan. 1925 Draftsman and Surveyor with W. R. Patrick, New York City, surveyed land and construction jobs, plotted and computed data. *TT 0.5: SP 0.5.* Jan. to Oct. 1925 Transitman, Title Guarantee & Trust Co., New York City. *TT 0.7: SP 0.7.* Oct. 1925 to Oct. 1926 Levelman, Central R. R. of New Jersey, on track layout, being Inspector on approaches of new Newark Bay Bridge. *TT 1: SP 1.* Oct. 1926 to date Jun. Engr., New York Central R. R., in charge of field party. *TT 0.4: SP 0.4.* *TT 2.6: SP 2.6.* Refers to C. G. Chamberlin, L. D. Rights, T. B. Rights, C. L. Spaulding, H. E. Van Ness.

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(15) GILL, GRAYSON WOODWARD, 805 Santa Fe Bldg., Dallas, Tex. (Age 33. Born Pt. Clinton, Ohio.) 1921 B. S. in Arch. Eng., Univ. of Mich. *TT 2: SP 2.* Dec. 1914 to June 1916 Draftsman with Mills Rhines, Bellman & Nordhoff, Archts., Toledo, Ohio. *TT 1.6: SP 1.6.* June 1916 to Aug. 1919 with U. S. Army, finally as 1st Lieut., aerial photography and mapping. *TT 3.2: SP 1.6: P 1.6.* Sept. 1919 to June 1920 student, Univ. of Michigan. June 1920 to Feb. 1921 Supt. of Constr., Board of Education, Three Rivers, Mich. *TT 0.7: P 0.7: RC 0.7.* Feb. to June 1921 Structural Engr. for L. H. Boynton, Archt., Ann Arbor, Mich., and Instructor and student, Univ. of Michigan. *TT 0.2: P 0.2: D 0.2.* July 1921 to Sept. 1922 Asst. Supt. of Constr., Dahl-Stedman Co., Chicago and Ann Arbor. *TT 1.2: P 1.2: RC 1.2.* Sept. 1922 to Aug. 1924 Associate Prof. of Architecture, Agricultural and Mechanical Coll. of Texas, structural design. *TT 2: P 2: RC 2.* Aug. 1924 to May 1925 Draftsman,

American Bridge Co., Pencoyd, Pa. *TT 0.8: SP 0.8.* June 1925 to date Engr., Herbert M. Greene Co., Archts., Dallas, Tex. *TT 1.8: P 1.8: RC 1.8: D 1.8.* *TT 13.5: SP 6: P 7.5: RC 5.7: D 2.1.* Refers to L. M. Gram, A. D. Hawley, R. O. Jameson, T. A. Munson, J. C. Nagle, G. V. Rhines, J. J. Richey.

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(1) **GLAVEEN, BERNARD JOSEPH**, Howley, Newfoundland. (Age 32. Born St. Johns, Newfoundland.) 1911-1913 studied surveying and mapping with International Correspondence Schools. July 1910 to May 1914 Rodman and Instrumentman, map drafting, etc., Dominion Coal Co., Glace Bay, N. S., Canada. *TT 3.4: SP 3.4.* Aug. 1914 to July 1916 Keystone Drill Operator and Inspector with Foley Bros., Welsh, Stewart & Fouquier, Gen. Contrs., and Asst. to Chf. Engr., Halifax Ocean Terminals. *TT 2: SP 2.* July 1916 to April 1919 Instrumentman, Third Canadian R. R. Troops, in Canada, England and France. *TT 2.7: SP 2.7.* Sept. 1919 to Feb. 1921 Bldg. Supt., McDonald Constr. Co., Ltd., Halifax, on steel and concrete school buildings. *TT 1.6: P 1.6: RC 1.6.* March 1921 to Feb. 1922 Serviceman with Blackadar & Stevens, Halifax, installation and repairs, household electric equipment. *TT 1: SP 1.* March to Dec. 1922 Diamond Drill Operator and Asst. Supt., Sudbury (Ontario) Diamond Drilling Co., on test boring of copper prospect in Newfoundland. *TT 0.8: SP 0.8.* Feb. to Dec. 1923 Supt. with Halifax Dredging Co., submarine drilling and blasting in Yarmouth Harbor, Nova Scotia. *TT 0.9: P 0.9: RC 0.9.* Feb. to June 1924 with Fraser Brace, Ltd., Montreal, Que., on construction of forebay and penstocks, as Materialman, progress reports, some engineering as Asst. to Supt. *TT 0.4: SP 0.4.* July 1924 to date with Newfoundland Power & Paper Co., Ltd., Corner Brook, Newfoundland, until May 1926 as Bldg. Supt. on construction of depot town, including dwellings, stores, shops, dock, etc., installation of water and sewer systems, septic tanks, and construction of dredging scows and boom holding grounds, and since June 1926 Dist. Storekeeper, managing general stores. *TT 2.7: SP 0.8: P 1.9: RC 1.9.* *TT 15.5: SP 11.1: P 4.4: RC 4.4.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(1) **GLYNN, HUGH FRANCIS, Jr.**, 987 Summit Ave., New York City. (Age 23. Born New York City.) 1924 B. S., Coll. of City of N. Y. *TT 2: SP 2.* July to Sept. 1923 Instrumentman, and Aug. 1924 to Dec. 1925 Recorder and Draftsman in field party, and (later) in charge of dredge, U. S. Engr. Dept., New York City. *TT 1.3: SP 0.3: P 1: RC 1.* Jan. 1926 to date Draftsman with Barker & Wheeler, New York City, on field work for public-utility inventory, preliminary survey for hydro-electric development. *TT 1.1: SP 0.4: P 0.7: RC 0.3.* *TT 4.4: SP 2.7: P 1.7: RC 1.3.* Refers to H. J. Cole, R. E. Goodwin, J. Kappeyne, F. O. X. McLoughlin, C. T. Middlebrook.

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(13) **GOODENOUGH, BERTRAM WILLIS**, 1514 California St., Berkeley, Cal. (Age 28. Born Philadelphia, Pa.) 1924 B. S. in C. E., Univ. of Cal. *TT 2: SP 2.* May to Sept. 1919 Draftsman, Sierra & San Francisco Power Co. *TT 0.4: SP 0.4.* April to Nov. 1920 with Lockwood & Blakeslee, Glasgow, Mont., until Aug. 1920 as Draftsman, then Field Engr. on maps. *TT 0.7: SP 0.3: P 0.4.* May to Oct. 1921 Field Engr. with Dorr Skeels, Missoula, Mont., in charge of party on maps. June to Sept. 1922 Instrumentman, U. S. Forest Service, on road location and bridge construction. July to Aug. 1923 Draftsman, Western Industries Co., drafting and design of timber structures for industrial plant. Feb. to Nov. 1925 Prin. Draftsman, U. S. Bureau of Reclamation and State of California, on designs and estimates of ship locks, control works, coffer dam and rock fill dam for Salt Water Barrier Project. *TT 0.8: P 0.8: RC 0.4.* July 1924 to Feb. 1925 and Nov. 1925 to date with East Bay Municipal Utility Dist., until Feb. 1925 as Jun. Engr. being Asst. on location and computing, and since Nov. 1925 Asst. Engr. being Asst. to Constr. Engr., on cost estimating, checking, etc., and Asst. on reports, analysis of contracts and problems of construction of large water supply project. *TT 2: P 2: RC 1.* *TT 6: SP 2.7: P 3.3: RC 1.4.* Refers to G. H. Binkley, E. L. Driggs, N. B. Hunt, J. Munn, W. A. Perkins, W. R. Young.

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(13) **GOODWIN, CLARENCE BERNARD**, City Mgr., San Jose, Cal. (Age 37. Born San Jose, Cal.) 1913 A. B. C. E., Leland Stanford, Jr., Univ. *TT 2: SP 2.* Jan. 1913 to Sept. 1915 Structural Draftsman with H. J. Brunnier, Cons. Structural Engr. *TT 2.7: SP 2: P 0.7: D 0.7.* Sept. 1915 to March 1918 time and cost keeping and Supt. of Constr. with Federal Constr. Co. *TT 2.5: SP 1: P 1.5: RC 1.5.* March 1918 to date with City of San Jose, Aug. 1918 became Asst. City Engr., Dec. 1919 City Engr., and Oct. 1920 City Mgr. *TT 9: P 9: RC 8.6: D 0.4.* *TT 16.2: SP 5: P 11.2: RC 10.1: D 1.1.* Refers to H. Bartholomew, E. O. Billwiller, H. W. Bolin, H. J. Brunnier, E. F. Cykler, J. N. Edy, C. G. Gillespie, C. E. Hickok, W. D. Hudson, J. G. McMillan, C. D. Marx, L. B. Reynolds, C. B. Wing.

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(15) GOSA, ROBERT EARL, 833 Howard Ave., New Orleans, La. (Age 35. Born Eutaw, Ala.) 1913 C. E., Univ. of Ala. *TT 2: SP 2.* June 1913 to Dec. 1915 with War Dept., as Govt. Inspector on construction of Locks and Dams Nos. 2, 3 and 17, Tombigbee and Black Warrior Rivers, Ala., and (one year) Chf. of Party on surveys and dredging, channel improvement, Tombigbee River. *TT 2.5: SP 1.5: P 1: RC 1.* Jan. 1916 to Sept. 1917 Asst. to Res. Engr., Hardaway Contr. Co., on construction of Whitney Dam and Power House for Aluminum Co. of America, Badin, N. C. *TT 1.7: P 1.7: RC 1.7.* Sept. 1917 to July 1919 with U. S. Army, Engrs., until April 1918 as Sergeant at Camps Pike and Lee, then Second Lieut. at Camp Funston, Kans., and after July 1918 First Lieut., being Engr. in charge of construction of timber docks and harbor dredging, Brest, France. *TT 1.7: SP 0.7: P 1: RC 0.5: D 0.5.* Nov. 1920 to Nov. 1924 with Doullut & Williams Co., Inc., as follows: Nov. 1920 to July 1921 Res. Engr. on construction of wharves, warehouses and oil terminal, Tampico, Mexico; Aug. 1921 to Feb. 1922 Field Engr., estimating, New Orleans, La.; March 1922 to Sept. 1923 Branch Office Mgr., Pensacola, Fla.; Oct. 1923 to Nov. 1924 Supt. of Constr. of concrete docks, Houston, Tex. *TT 4: P 4: RC 3.1: D 0.9.* Dec. 1924 to date Vice-Pres., W. Horace Williams Co., New Orleans. *TT 2.4: P 2.4: RC 1.8: D 0.6.* *TT 1.5: SP 4.3: P 10.2: RC 8.2: D 2.* Refers to C. G. Cappel, G. J. Davis, Jr., E. M. Graves, S. T. Jones, Jr., H. J. Lane, B. S. Morrow, W. H. Williams, J. K. Woolf.

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(3) GRIMM, SERGEI NICOLAS, 412 Greenwood Pl., Syracuse, N. Y. (Age 30. Born Cherdin, Russia.) 1924 B. S. in C. E., Univ. of Wyo. *TT 2: SP 2.* June to Sept. 1915 Inspector, City of Perm, Russia, on construction of sewers. *TT 0.2: SP 0.2.* June 1916 to Nov. 1917 Instrumentman, Russian Dept. of Reclamation, on location of canals, topographic survey. *TT 1.4: P 1.4.* July 1920 to Jan. 1921 Contr., Manchuria, China, excavation, building construction, hydraulic fills. *TT 0.5: P 0.5: RC 0.5.* June 1924 to Sept. 1925 Instrumentman, U. S. Reclamation Service, canal location, engineering drafting. *TT 1.2: P 1.2.* Sept.-Dec. 1925 Asst. Engr., Canadian River Investigations, survey of canals, reservoirs and irrigable area in New Mexico. *TT 0.3: P 0.3: RC 0.3.* Jan. to Sept. 1926 Res. Engr., Harwood Beebe Co., on water-works construction. *TT 0.7: P 0.7: RC 0.7.* Sept. 1926 to date Draftsman, Bureau of Eng., Syracuse. *TT 0.5: P 0.5: RC 0.5.* *TT 6.8: SP 2.2: P 4.6: RC 2.* Refers to H. Beebe, H. D. Comstock, J. C. Fitterer, C. S. Herrick, G. D. Holmes, W. A. Lyon, N. F. Pitts, Jr.

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(1) GRONQUIST, CARL HARRY, 502 George St., New Brunswick, N. J. (Age 23. Born New York City.) 1925 B. S., Rutgers Univ. *TT 2: SP 2.* Summers 1923 and 1924 Rodman with Lozler, Zabriskie & Van Buren, Hackensack, N. J., acting as Tapeman and Instrumentman and on computations, drafting, etc. June to Sept. 1925 Structural Draftsman, Improvement Dept., American Car & Foundry Co., New York City, steel detailing and designing, design and drawing of concrete footings, retaining wall. *TT 0.2: SP 0.2.* Sept. 1925 to date Graduate Asst. in Civ. Eng. and graduate student in Structural Eng., Rutgers Univ. June to Sept. 1926 Structural Draftsman with Post & McCord, New York City, steel detailing, drawing steel framing and foundation plans of 8-story storage building. *TT 1.4: SP 0.2: P 1.2.* *TT 3.6: SP 2.4: P 1.2.* Refers to C. C. Armstrong, C. E. Pett, E. H. Rockwell, S. A. Stephenson, Jr., A. Weymouth.

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(13) GRUBB, GEORGE CAMBRIDGE, 445 South Fifteenth St., San Jose, Cal. (Age 39. Born Pacheco, Cal.) 1911 B. S., Univ. of Cal. *TT 2: SP 2.* Oct. 1911 to March 1921 with Canadian Explosives, Ltd., engaged as follows: Oct. 1911 to Aug. 1912 Draftsman and Instrumentman on addition to dynamite plant at Nanaimo, B. C.; Aug. 1912 to Aug. 1913 Res. Engr. at same plant, on construction of buildings and installation of equipment, layout and construction of tram tracks, steam, air, water, brine and electric lines (about \$300 000); Aug. 1913 to Aug. 1914 Asst. Res. Engr. on construction of new dynamite and high explosives plant at James Island, B. C. (construction stopped); Aug. to Nov. 1914 kept power house costs, worked in machine shop and power house, and on drafting; Nov. 1914 to Aug. 1915 acted as Clerk, Draftsman and Shipper for Victoria Chemical Co., a subsidiary company; Aug. 1915 to Nov. 1918 Res. Engr., James Island Plant, in charge of construction of T. N. T. plant and Engr. in charge of all plant operation; project (approx. \$2 000 000) included erection of nitric acid and sulphuric acid plants, waste acid recovery, power house, electric transmission lines, etc.; had charge of over one-half of design work; Nov. 1918 to Jan. 1920 Res. Engr. in charge of completion of construction of dynamite plant and black powder plant at James Island and of about three-fourths of the design; Jan. 1920 to March 1921 Asst. Works Mgr., at James Island Plant, having general supervision of engineering details, and supervision of manufacture of high explosives, acids, black powder and fertilizers. *TT 9.4:*

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SP 1.8: P 7.6: RC 4.4: D 4.4. March 1921 to Aug. 1923 Chf. Engr., California Prune & Apricot Growers Association, operating about thirty fruit packing plants in California; had charge of all engineering work, including design, construction and operation; designed and constructed four new plants (\$500 000). *TT 2.5: P 2.5: RC 2.5: D 2.5.* Jan. 1924 to date Asst. City Engr., San Jose, Cal., duties included design of sanitary and storm sewers, pavements, supervision (under City Engr.) of street paving, etc. *TT 3.2: P 3.2: D 0.5. TT 17.1: SP 3.8: P 13.3: RC 6.9: D 7.4.* Refers to H. R. Angwin, E. O. Billwiller, C. Derleth, Jr., B. A. Etcheverry, S. P. Lavery, O. C. Tretten.

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(1) **GRUSHKY, MAURICE**, 1434 Forty-Ninth St., Brooklyn, N. Y. (Age 23. Born Seville, Russia.) Student in Civ. Eng., Northeastern Univ. (Sept. 1921 to June 1923) and Massachusetts Inst. of Technology (Oct. 1923 to Oct. 1925). *TT 1.3: SP 1.3.* Oct. to Dec. 1925 Asst. Engr., Massachusetts Highway Dept., computing quantities and estimates. *TT 0.2: SP 0.2.* Dec. 1925 to March 1926 Transitman, South Essex Sewerage Comm., on grades, alignment, topography, calculations and plotting. *TT 0.2: SP 0.2.* March 1926 to date Eng. Asst., Kenn-Well Contr. Co., on supervision and inspection of water-front construction and foundations. *TT 1: SP 1. TT 2.8: SP 2.8.* Refers to J. B. Babcock, 3d, F. E. Cudworth, B. F. Snow, C. M. Spofford, R. G. Tyler.

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(1) **GUTIERREZ-SALINAS, JORGE BRAULIO**, Buenos Aires, Argentine Republic (Temporary address, 3 Dana St., Cambridge, Mass.) (Age 23. Born El Ronquillo, Seville, Spain.) 1925 C. E., Univ. of Buenos Aires, Argentine Republic. *TT 2: SP 2.* Jan. 1926 to date with Warren Bros. Co., until May 1926 as Inspector and in charge of levels and lines on paving of Villa Porrenit, near Buenos Aires, then Laboratory Asst. at Cambridge, Mass. Since Sept. 1926 also post-graduate student, Harvard Eng. School. *TT 1.1: SP 0.8: P 0.3. TT 3.1: SP 2.8: P 0.3.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(8) **HALL, RUSSELL ALGER**, Univ. of Illinois, Urbana, Ill. (Age 33. Born Blissfield, Mich.) 1916 B. C. E., Univ. of Mich. 1924 M. S., Univ. of Ill. *TT 2.* July 1916 to Jan. 1917 Asst. on Engr. Corps, Pennsylvania R. R., acting as Instrumentman and Draftsman. *TT 0.5.* Jan. to April 1917 San. Inspector, Detroit Board of Health, laying out work. *TT 0.3.* April to July 1917 Inspector, Milwaukee Sewerage Comm., on concrete intercepting sewer construction. *TT 0.2.* Aug. 1917 to Feb. 1918 with San. Engr., Toledo, Ohio, on preliminary design of proposed intercepting sewer system. *TT 0.6.* Feb. 1918 to July 1919 Private to Master Engr., Engr. Corps, U. S. Army, on construction at St. Nazaire, France (1½ years) and in charge on camp construction (9 months). *TT 1.5: RC 0.8.* Sept. 1919 to Sept. 1920 with City Engr., Flint, Mich., 10 months in charge on reinforced concrete building construction and 2 months on structural design. *TT 1: RC 0.8: D 0.2.* Sept. 1920 to date Instructor (1920-1923) and Associate (1924-date), Dept. of Eng. Drawing, Univ. of Illinois, after 1924 being Adviser in curriculum of general engineering, and after 1926 Dept. Chairman in charge of course in descriptive geometry; 1920-1925 also graduate student. Summers 1921-1926 instrument work, inspection, etc., on concrete highway construction, Michigan Highway Dept. (1921); investigation and report and design of repairs (about \$10 000) on several old steel bridges, design and specifications for several reinforced concrete bridges and building design, City Eng. Dept., Flint, Mich. (1922 and 1923); investigation of plain concrete properties in Eng. Experiment Laboratory (1924); in charge of summer course of Drawing Dept., Univ. of Illinois (1925); Field Engr., Portland Cement Association on structural work in Detroit (1926). *TT 6.6: RC 4.2: D 0.5. TT 12.7: RC 5.8: D 0.7.* Refers to H. Cross, H. H. Jordan, H. C. McClure, O. A. Piper, E. C. Shoecraft, A. N. Talbot.

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(10) **HAPGOOD, FREDERIC HERBERT**, 1701 Georgia Ave., West Palm Beach, Fla. (Age 35. Born Athol, Mass.) 1915 B. S. in Civ. Eng., Worcester Pol. Inst. *TT 2: SP 2.* June 1915 to July 1917 Asst. Engr. with James L. Tighe, Holyoke, Mass., surveying, mapping, and computations, Res. Engr. on sewer system for Huntington, Mass. *TT 2: SP 1: P 1: RC 1.* July to Sept. 1917 Asst. Engr. with Hazen, Whipple & Fuller, being Chf. of Party on surveying, designing and laying out sewers for Camp Dix, N. J. *TT 0.2: SP 0.2.* Sept. 1917 to March 1919 Private, Corporal and Master Engr., 26th Engrs., U. S. Army, in France with Headquarters S. O. S. Water Supply Sec., on design of camp water and sewer systems; with 1st Army Water Supply Sec. keeping records of water-supply positions. *TT 1.5: SP 0.7: P 0.7: RC 0.7: D 0.7.* March 1919 to date with Hazen & Whipple, until Aug. 1923 as Asst. Engr. acting as Draftsman on water-works design and computations, then Res. Engr. on design and construction of improvements to filtration plant, Albany, N. Y. (total cost \$750 000) (2½ years), and past year on main extensions for West Palm Beach Water Co., and plans and

specifications for small water and sewer systems for Delray and Stuart, Fla. (total cost \$350 000). TT 7.8: SP 3.8: P 4: D 1.2. TT 13.5: SP 7.8: P 5.7: RC 5.7: D 2. Refers to C. M. Everett, A. W. French, W. E. Fuller, P. Hansen, A. Hazen, H. M. Pirnie, J. L. Tighe.

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(1) HASTINGS, HORACE MALCOLM, 672 Fort George Ave., New York City. (Age 32. Born St. Lawrence, N. Y.) Registered Prof. Engr., State of Indiana. Student in Civ. Engr., Highland (Kans.) Coll. (1 year) and Univ. of Nebraska (2 years). TT 0.6: SP 0.6. Feb. 1918 to July 1921 Asst. to Plant Engr., The Studebaker Corporation of America, South Bend, Ind., in charge of design, detail, etc., construction and maintenance of buildings. TT 3.5: SP 1.5: P 2: RC 1: D 1. Sept. 1921 to July 1922 Structural Engr., Edwards Iron Works, South Bend, in charge of estimating, detail, design, etc., of structural fabricating shop. TT 0.7: P 0.7: RC 0.4: D 0.3. July 1922 to May 1924 Designer and Draftsman, until Dec. 1923 with U. S. Coal & Coke Co., Gary, W. Va., then with Pittsburgh-Des Moines Steel Co., Des Moines, Iowa, drafting and designed of steel, concrete and brick buildings. TT 2: SP 1.1: P 0.9: RC 0.2: D 0.7. May 1924 to date Field Engr., Union Carbide & Carbon Corporation, New York City, making appraisals of construction and of entire plants. TT 2.8: SP 0.2: P 2.6: RC 2.6. TT 9.6: SP 3.4: P 6.2: RC 4.2: D 2. Refers to S. R. Donnellon, J. Leahy, H. L. Noyes, R. N. Shepard, D. R. Schock.

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(9) HAY, MARION, 1221 Wilson Drive, Dayton, Ohio. (Age 39. Born Brookville, Ohio.) 1911 C. E., Wayne Techn. Acad. July 1911 to Sept. 1912 Location and Res. Engr., Cincinnati, Hamilton & Dayton Ry. TT 1.1: SP 0.3: P 0.8: RC 0.1. 1912 to 1918 with County Engr. of Montgomery County, 5 months drafting, remainder of time designed and had charge of bridge (2 years), paved roads (1½ years) and irrigation (over 1 year) work. TT 6.6: SP 0.5: P 6.1: RC 3.1. 1918 to 1919 Estimator, U. S. Structural Concrete Co. TT 0.6: P 0.6: RC 0.6. 1919 to 1921 Post Engr. in charge of Utilities Dept., Wilbur Wright Aviation Field, on design and repair of buildings, purchasing materials, etc. TT 2.7: P 2.7: RC 1.7. 1921 to 1924 Supt. of Constr. and Estimator for Schenck & Williams, Archts. TT 3.3: P 3.3: RC 3.3. 1925 to 1926 City Plan Examiner of buildings, City of Dayton, Ohio. TT 1.4: P 1.4: RC 1.4. 1926 to 1927 Estimator and Engr., H. R. Blagg Co., Gen. Contrs., Dayton. TT 0.7: P 0.7: RC 0.2. Jan. 1927 to date Director of Bldg., City of Dayton, in charge of checking buildings erected in city, materials and zoning laws. TT 0.2: P 0.2. TT 15.7: SP 0.7: P 15: RC 10.5. Refers to P. S. Bookwalter, J. K. Grannis, W. W. Morehouse, C. H. Paul, C. H. Shook, V. C. Smith, D. R. Wells.

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(14) HEDGES, WARREN BARTLETT, 940 North Jefferson Ave., Springfield, Mo. (Age 27. Born Springfield, Mo.) A. B., Drury Coll., Springfield, Mo. 1926 B. S. in Civ. Eng., Wisconsin Univ. TT 2: SP 2. June 1922 to June 1924 Chainman, St. Louis & San Francisco R. R. TT 2: SP 2. June to Sept. 1924 Rodman, U. S. Geological Survey, taking topography, etc. TT 0.2: SP 0.2. Aug. 1926 to date Supt., Hedges-Weeks Constr. Co., constructing concrete culverts and underpasses on a railroad. TT 0.5: SP 0.4: P 0.1. TT 4.7: SP 4.6: P 0.1. Refers to F. G. Jonah, R. Owen, C. D. Purdon, L. F. Van Hagan.

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(11) HEUER, ROBERT BURKE, 5454 Seventh Ave., Los Angeles, Cal. (Age 25. Born Terre Haute, Ind.) Sept. 1919 to March 1921 student, California Inst. of Technology. TT 0.3: SP 0.3. April 1921 to date with County Surveyor, Los Angeles County, Cal., until Oct. 1925, successively as Rodman, Chainman and Draftsman, road work, etc., and since then Civ. Engr., Grade III, in responsible charge of preparing specifications and resolutions for street opening, widening and improvement proceedings, compiling data for condemnation suits. TT 5.9: SP 4.4: P 1.5: RC 1.5. TT 6.2: SP 4.7: P 1.5: RC 1.5. Refers to A. Jones, H. M. Jones, O. D. Keese, J. E. Rockhold, A. K. Warren.

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(1) HOFF, LOUIS DALE, 1 Spring Road, Park Hill, Yonkers, N. Y. (Age 31. Born Rochester, N. Y.) 1921 B. S. in C. E., N. Y. Univ. TT 2: SP 2. July to Sept. 1916 Chainman and Instrumentman, New York Central R. R. May 1917 to Dec. 1919 with U. S. Navy, 6 months as Instructor in Navigation at Pelham Training Station, and 9 months (during war) Navigator and Asst. TT 1.3: P 1.3: RC 1.3. March 1922 to Nov. 1923 and March to July 1924 on transmission-line surveys, plotting field notes, Adirondack Power & Light Corporation, field supervision and responsible charge of all layout work for hydro-electric power plant and substation, design of anchor piers, penstock, bridge, etc. TT 2: SP 1: P 1: RC 1. Oct. 1924 to Nov. 1925 office work and drafting, Westchester County Park Comm., design of

septic sewerage system and reinforced concrete pavement. TT 1: SP 0.5: P 0.5: D 0.5. TT 6.3: SP 3.5: P 2.8: RC 2.3: D 0.5. Refers to H. E. Breed, A. Haring, E. G. Hooper, C. H. Snow, C. Voetsch.

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(10) HOLLYFIELD, JOHN BURGIN, 2022 Bailey Ave., Chattanooga, Tenn. (Age 25. Born Chattanooga, Tenn.) Feb. to Sept. 1920 Tracer, Birmingham (Ala.) Steel Corporation. TT 0.5 SP 0.5. Sept. 1920 to May 1922 Draftsman, Ingalls Iron Works Co., Birmingham, tracing and detailing bridges, etc. TT 1.6: SP 0.6: P 1. Nov.-Dec. 1922 and Jan. 1924 to Feb. 1925 with Virginia Bridge & Iron Co. at Roanoke, Va., Memphis, Tenn., and Birmingham, Ala., as Draftsman, Detailer, Checker and Estimator, on structural steel bridges, buildings, etc. TT 1.4: P 1.4: RC 0.6: D 0.1. May to Nov. 1922, 1923, and Feb. 1925 to date with Converse Bridge & Steel Co., Chattanooga, as Draftsman, detailing and checking structural steel bridges, office buildings, etc. TT 3.6: P 3.6: RC 0.8. TT 7.1: SP 1.2: P 5.9: RC 1.5: D 0.2. Refers to H. A. Davies, L. V. Fisher, J. E. Morelock, A. R. Peyton, J. H. Smith, D. H. Wood.

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(1) HOWLAND, ARTHUR ERVIN, 67 Argyle Ave., Babylon, N. Y. (Age 36. Born Mechanicsville, N. Y. 1908 to 1910 student, School of C. E., Rensselaer Polytechnic Inst. TT 0.6: SP 0.6. July 1910 to Jan. 1924 (except July 1918 to Feb. 1919 with U. S. Army) with New York State Comm. of Highways, until Feb. 1914 as Highway Inspector, being Asst. to Engr. in Chg. and Engr. in charge of road construction contracts, from Feb. 1914 to July 1918 Leveler and Jun. Asst. Engr. acting as County Asst. Engr., and after Feb. 1919 County Asst. Engr., in charge of construction and maintenance in Orange County (West End). TT 12.9: SP 1: P 11.9: RC 11: D 11. Jan. 1924 to date Res. Engr., New York State Dept. of Public Works, in charge of highway maintenance, repair, construction and reconstruction, and bridge and grade-crossing elimination work, until Feb. 1926 in Poughkeepsie Div., also acting as Asst. Div. Engr. and since then on Long Island (Nassau and Suffolk Counties) (\$5 000 000 annually). TT 3.2: P 3.2: RC 3.2: D 3.2. TT 16.7: SP 1.6: P 15.1: RC 14.2: D 14.2. Refers to C. F. Morse, A. O. Smith, W. F. Starks, J. H. Sturdevant, B. H. Walt, E. W. Wendell.

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(5) HUNNICUTT, JAMES MADISON, 118 Richelleu Ave. South, Roanoke, Va. (Age 25. Born Birmingham, Ala.) 1922 B. S. in C. E., Ala. Pol. Inst. TT 2: SP 2. 1917-1920 (summers and spare time) Tracer and Detailer, Southern Bridge Co., Birmingham, Ala. Sept. 1922 to date with Virginia Bridge & Iron Co., until Aug. 1924 as Tracer, Detailer, Estimator, and Checker, part of time on design; Aug. 1924 to Aug. 1925 organized drafting room at Birmingham Plant, acted as Detailer, Checker, Estimator and Squad Leader, and did considerable design; since Aug. 1925 at Roanoke as Asst. Contr. Engr., and (after March 1926) Contr. Engr. TT 4.5: SP 1.6: P 2.9: RC 1.5. TT 6.5: SP 3.6: P 2.9: RC 1.5. Refers to C. A. Baughman, P. A. Blackwell, J. A. C. Callan, E. S. Humphreys, C. W. Ogden, A. R. Peyton, G. A. Tretter.

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(9) JENNINGS, ROBERT BOND, City Engr.'s office, Columbus, Ohio. (Age 25. Born Columbus, Ohio.) Sept. 1919 to Jan. 1925 student, Coll. of Civ. Eng., Ohio State Univ. TT 1.3: SP 1.3. 1917 to 1925 (summers and spare time) Chairman, Rodman and Instrumentman, Jennings-Lawrence Co., Columbus, Ohio. Jan. to March 1925 Rodman, Chesapeake & Ohio Northern R. R. TT 0.3: SP 0.3. March 1925 to Jan. 1926 Rodman and Instrumentman, Hocking Valley R. R., in charge of field party. TT 0.7: SP 0.3: P 0.4. Jan. to June 1926 Draftsman, and June 1926 to date Asst. Engr., Sewer Dept., City Engr.'s office, Columbus. TT 1.1: SP 0.5: P 0.6. TT 3.4: SP 2.4: P 1. Refers to S. P. Baird, O. Bonney, E. G. Bradbury, F. H. Eno, J. H. Gregory, C. T. Morris, C. A. Raymond.

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(11) JESSUP, ALBERT HALL, 1153 Mullen Ave., Los Angeles, Cal. (Age 40. Born Penn Yan, N. Y.) Licensed Land Surveyor, State of Idaho, Registered Prof. Engr., State of Pennsylvania. Sept. 1906 to May 1908 and Sept. 1909 to June 1911 student, Univ. of Idaho hydro-electric engineering. TT 1.3: SP 1.3. Feb. 1905 to Aug. 1906 Draftsman, Black Mountain Mining Co., Magdalena, Sonora, Mexico, on construction of power station. TT 1.5: SP 1.5. May 1908 to Sept. 1909 Draftsman, Chicago, Milwaukee & St. Paul Ry. and (after May 1909) Sierra & San Francisco Power Co., on construction. TT 1.4: SP 1.4. June 1911 to Aug. 1913 Asst. City Engr., Moscow, Idaho, and Deputy County Surveyor, Latah County, Idaho, being Chf. of field party. TT 2.1: P 2.1: RC 1.5: D 0.6. Aug. 1913 to Feb. 1916 Supt. of Constr. and Superv. Engr., C. H. Green Co., Cons. Engrs. and Contrs., Spokane, Wash. TT 2.5: P 2.5: RC 2.5: D 1. Feb. 1916 to June 1917 Draftsman and Sept. 1922 to April 1926 Research Engr. and later Chf. Engr., American Sterilizer Co., Erie, Pa.

TT 5.1: SP 1: P 4.1: D 4.1. June to Dec. 1917 and May 1919 to Feb. 1920 Gen. Supt. and Chf. Engr., Lakeside Forge Co., Erie, in charge of operation of plant; designed and supervised erection of various additions (cost over \$100 000). TT 1.4: P 1.4: RC 1: D 0.4. Dec. 1917 to May 1919 Capt., San. Corps, Eng. Sec., U. S. Army; at present Capt., Engr. Reserve Corps. TT 1.4: P 1.4: RC 1: D 0.4. April to July 1926 Production Engr., G. H. Williams Co., Erie, in charge of installing new production methods in factory (clam shell buckets). TT 0.4: P 0.4: D 0.4. Dec. 1926 to date Engr. with Quinton, Code & Hill, Cons. Engrs., Los Angeles, Cal. TT 0.2: P 0.2: D 0.2. TT 17.3: SP 5.2: P 12.1: RC 6: D 7.1. Refers to C. G. Adsit, A. R. Baker, P. Bauman, L. C. Hill, R. A. Hill, S. L. Savidge.

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(12) KARSTETTER, JOHN JACOB, 1096 Senate St., Portland, Ore. (Age 39. Born Jewell City, Kans.) 1909 B. S., Ore. Agri. Coll. TT 2: SP 2. June 1909 to Sept. 1911 Draftsman, Silverton (Ore.) Sash & Door Co., detail drafting, some design. TT 2.3: P 2.3: D 0.5. Oct. 1911 to Aug. 1912, Jan. to July 1915 and Dec. 1915 to May 1917 Draftsman, Pacific Telephone & Telegraph Co., Portland, Ore., drafting and detailing, laying out and computing primary rate areas for Portland Dist., and with field party on location of Portland-Astoria toll line. TT 2.7: P 2.7. Aug. 1912 to Oct. 1913, Nov. 1913-Dec. 1914, July to Dec. 1915 and May to Oct. 1917 Draftsman, Water Bureau, Portland, detailing plans for water mains and extensions, designing new headworks on Bull Run River and employees buildings at headworks, compiling records, computing, estimating, etc. TT 3.3: P 3.3: D 1.2. Oct. 1917 to June 1918, Instructor, Oregon Agricultural Coll., School of Eng. TT 0.7: P 0.7: RC 0.7. June 1918 to May 1921 Draftsman, and May 1921 to date Asst. Engr., Water Bureau, Portland, in charge of construction of new headworks (May 1921 to Feb. 1922), field work, design, and (1½ years) Res. Engr. on construction of Conduit No. 3 (Sept. 1922 to Feb. 1925) and in charge of Dept. of Special Design (since Feb. 1925). TT 8.7: P 8.7: RC 5.8: D 6.6. TT 19.7: SP 2: P 17.7: RC 6.5: D 8.3. Refers to D. C. Henny, C. P. Keyser, B. S. Morrow, F. M. Randlett, B. E. Torpen, E. C. Willard.

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(15) KEARBY, JEROME PEYTON, Jr., 1107 Merchants Bank Bldg., Dallas, Tex. (Age 27. Born Willis Point, Tex.) Aug. to Nov. 1919 Rodman with N. C. Pierson, Ranger, Tex., on railroad location. TT 0.2: SP 0.2. Nov. 1919 to Aug. 1920 Instrumentman and Rodman with A. E. Firmin, Dallas, Tex., on highway and railroad work. TT 0.7: SP 0.7. Aug. 1920 to May 1921 Res. County Highway Engr., Erath County, Tex. TT 0.7: SP 0.4: P 0.3: RC 0.3. May to Nov. 1921 Supt. of Constr. with O'Conner & Gilkerson, on concrete construction. TT 0.5: P 0.5: RC 0.5. Nov. 1921 to Aug. 1923 Asst. County Highway Engr., and Aug. 1923 to June 1925 County Highway Engr. on State and Federal Aid Projects (\$500 000), Fayette County, Tex. TT 3.5: P 3.5: RC 3.5: D 2.5. June to Oct. 1925 in private practice. TT 0.3: P 0.3. Oct. to Dec. 1925 with Floyd, Lochridge & Gillespie, in charge of field investigations and hydraulic calculations in office. TT 0.2: P 0.2: RC 0.2. Dec. 1925 to date with T. C. Forrest, Jr., and Myers, Noyes & Forrest, as Engr. in charge of field work and office work in design. TT 1.2: P 1.2: RC 1.2: D 1.2. TT 7.5: SP 1.4: P 6.1: RC 5.8: D 3.8. Refers to V. R. Brady, A. E. Firmin, T. C. Forrest, Jr., G. H. Gilchrist, J. L. Lochridge, E. N. Noyes.

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(1) KEHOE, JAMES LUKE, 50 Bay View Terrace, Newburgh, N. Y. (Age 45. Born Newburgh, N. Y.) 1904-1910 C. E. course, International Correspondence School. 1904-1908 Chairman, Rodman and Highway Inspector, etc., New York State Highway Comm., on plans and in charge of surveys and construction. TT 5: SP 4: P 1: RC 2. 1909-1916 member of firm, Jova & Kehoe, Engrs. and Contra., 1917-1924 Gen. Contr., and 1925 to date Engr. and Treas., J. L. Kehoe Constr. Co., at Newburgh, N. Y.; until 1924 on surveys, plans and specifications, construction of state roads for New York Highway Comm., street pavements, sewers and water-works for City of Newburgh, 1 year on construction of Storm King Highway, as Engr. for J. L. Hayes Constr. Co., Yonkers, N. Y., designed and supervised erection of plant of Newburgh Crushed Stone Corporation; since 1925 on road construction for City of Newburgh and New York State Highway Comm., including Contract No. 8198 Cobleskill-Sharon concrete road (680 miles), etc. TT 17.7: P 17.7: RC 17.7: D 0.5. TT 23: SP 4: P 19: RC 20: D 0.5. Refers to H. E. Breed, F. J. Collins, C. T. Fisher, C. A. Gridley, R. D. Hayes, C. M. Madden, A. T. Paine, A. W. Rogers, P. Schultze, J. H. Sturdevant, J. B. Whipple.

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(1) KENT, EDMUND RANDOLPH, 503 West 121st St., New York City. (Age 37. Born Wytheville, Va.) 1918 B. S., Univ. of Cal. TT 2: SP 2. July 1905 to Dec. 1906 Rodman and Leveler, Carolina, Clinchfield & Ohio Ry. TT 1: SP 1. March to May 1916 Asst. to Res. Engr., on construction of power plant, San Joaquin Light & Power Co., Santa Maria, Cal.

May to Aug. 1916 Draftsman, City Engr.'s office, Santa Barbara, Cal. Oct 1917 to Dec. 1919 Private, Engr. Corps, U. S. Army, in France, locating railroads, designing and superintending construction, etc. *TT 2.1: SP 0.8: P 1.3: RC 0.3: D 0.2.* 1920 to 1921 ill. July 1921 to May 1922 Res. Engr., Reclamation Dist. No. 2047, Grafton, Cal., on construction of pumping plant, canals, headgate structures, etc. *TT 0.9: P 0.9: RC 0.9.* May 1922 to March 1923 Res. Engr. on construction of reinforced concrete arch bridge, City of Pasadena, Cal. *TT 0.9: P 0.9: RC 0.8: D 0.1.* April to July 1923 Field Engr., Compania Constructora Richardson, S. A., Rio Yaqui, Mexico, on survey work. *TT 0.3: P 0.3.* May 1924 to July 1926 Res. Engr., Mt. Vernon Ladies' Association, designing and constructing houses, roads and pumping plant, maintenance of Diesel engine electric plant and water system. *TT 2.2: P 2.2: RC 1.7: D 0.3.* Sept. 1923 to May 1924 (part of time ill) and July 1926 to Jan. 1927 in private practice, designing small houses, farm water supply and lighting, surveying, etc., in Washington, D. C., and Virginia. *TT 1.1: P 1.1: D 1.1. TT 10.5: SP 3.8: P 6.7: RC 3.9: D 1.7.* Refers to A. J. Eddy, R. R. Mariel, S. B. Morris, H. M. Stafford, A. Stelhorn.

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(1) KLEEBAUER, FELIX THADEUS, Apartado 54, San Salvador, El Salvador, Central America. (Age 30. Born Fussen a/Lech., Bavaria, Germany.) 1920 Diplom. Bauingenieur, Technische Hochschule, Munich. *TT 2: SP 2.* July 1915 to Nov. 1918 Private to First Lieut., Eng. Corps, German Army, road and bridge construction at east front, Russia, Rumania and Serbia. *TT 3.4: P 3.4: RC 2.* July 1920 to July 1921 Engr., Ministry of Public Works, Greek Govt., survey of road, Salonici-Stradony, making maps and construction drawings for bridges (Designer of bridges). *TT 1: P 1: RC 1: D 1.* Nov. 1921 to Nov. 1923 Chf. Engr., The Cartagena Ry., Colombia, in charge of maintenance of way (105 km.) and structures. *TT 2: P 2: RC 2: D 2.* Nov. 1923 to July 1925 with W. E. Dickinson & Co., on survey for 42 km. aqueduct main, all plans and estimate, survey for roads (about 150 km.) and construction. *TT 1.8: P 1.8: RC 1.8: D 1.8.* July 1925 to July 1926 private work, including survey work for Colombian Govt., built reinforced concrete building for brewery and several for warehouses and designed several small aqueducts. *TT 1: P 1: RC 1.* July 1926 to date with R. E. Hebard and Rene Keilhauer, San Salvador on survey of new aqueduct main, design of new water works (7 500 000 gal. daily), reinforced concrete reservoir, buildings, etc. *TT 0.6: P 0.6: RC 0.6: D 0.6. TT 11.8: SP 2: P 9.8: RC 9.8: D 6.4.* Refers to R. C. Burton, M. E. Gilmore, H. Gorla, R. C. Hardman, E. B. Morden, W. F. Wirth.

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(7) KOENITZER, LESTER HENRY, 409 Northwestern Ave., Ames, Iowa. (Age 25. Born Des Moines, Iowa.) 1926 B. S. in C. E., Iowa State Coll. *TT 2: SP 2.* June to July 1921 and June to July 1923 Student, Reserve Officers' Training Camps, Camp A. A. Humphrey, Va., and Ft. Snelling, Minn. July to Sept. 1923 Book Salesman, and June 1924 to June 1925 Field Representative, with John A. Hertel Co., Chicago, Ill. June to Nov. 1925 and June to Dec. 1926 Book Salesman, National Home & School Association. March to Nov. 1922 Rodman (2 months) and on estimates and reports, and since Feb. 1927 Inspector, acting as Plant Inspector on paving, Iowa State Highway Comm. *TT 0.2: SP 0.2. TT 2.2: SP 2.2.* Refers to T. R. Agg, R. A. Caughey, R. W. Crum, A. H. Fuller, J. H. Griffith, F. Kerekas.

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(9) KOHNEN, EDWARD, 9718 Clifton Boulevard, Cleveland, Ohio. (Age 33. Born Irving, N. Y.) 1915 to 1918 student, Evening Technical School, Buffalo. Oct. 1911 to Jan. 1918 Cost Accountant, Inspector and Foreman, Corrugated Bar Co., Engrs. and Fabricators of Reinforcing Steel, Buffalo, N. Y. *TT 6.2: SP 6.2.* Jan. 1918 to Jan. 1919 in charge of traverse party, and Recorder on primary triangulation with U. S. Coast and Geodetic Survey. *TT 1: SP 1.* Feb. to June 1919 Structural Steel Worker, Sun Shipbuilding Corporation, Chester, Pa., on construction of steel ships. *TT 0.3: SP 0.3.* June to Sept. 1919 Asst. Chf. Clerk, Chf. Engr.'s office, Lackawanna (N. Y.) Steel Co., plant construction work. *TT 0.3: SP 0.3.* Sept. 1919 to April 1921 with W. R. Heagler & Sons, Cons. Engrs., St. Louis, Mo., until Jan. 1920 as Transitman then Res. Engr. on drainage, reclamation, river and hydraulic work. *TT 1.6: SP 0.3: P 1.3: RC 1.3: D 0.2.* April 1921 to April 1922 with Kentucky State Highway Dept., as Transitman in charge of location and plans of Mayo Trail through Cumberland Mts., and Inspector in charge of completion of Livingston Bridge. *TT 1: P 1.* April 1922 to April 1923 Res. Engr., Hiram Phillips Eng. Co., St. Louis, on drainage, reclamation, river and general hydraulic work. *TT 1: P 1: RC 1: D 0.2.* April 1923 to Jan. 1925 Res. Engr., Kentucky State Highway Dept. on construction of Federal Projects 61A and B, 17-mile section of East Dixie Highway through mountains of Southeastern Kentucky. *TT 1.7: P 1.7: RC 1.7: D 0.2.* Jan. 1925 to April 1926 Chf. Engr. with Receiver for John S. Lusk Co., Gen. Contr., Knoxville, Tenn., in charge of railroad, highway and tunnel work. *TT 1.2: P 1.2: RC 1.2.* July 1926 to date with George B. Gascoigne, Cons. San. Engr., Cleveland,

as Asst. Engr. on construction of a sewage-treatment plant. *TT 0.7: P 0.7. TT 15: SP 8.1: P 6.9: RC 5.2: D 0.6.* Refers to A. A. Burger, C. L. Garner, J. E. Garrett, A. E. Heagler, A. A. Jones, J. T. Madison.

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(6) LARRY, HERBERT FREEMAN, 3219 Latonia Ave., Dormont, Pa. (Age 24. Born Champaign, Ill.) 1925 B. Sc., Univ. of Ill. *TT 2: SP 2.* June to Sept. 1924 Road Inspector on reinforced concrete road, Champaign County Road Dept. June 1925 to date Asst. Div. Engr., Dept. of Public Works, Allegheny County, in charge of road construction, preliminary and construction surveys. *TT 1.7: P 1.7: RC 1. TT 3.7: SP 2: P 1.7: RC 1.* Refers to H. Cross, S. Eckels, F. C. Lohmann, G. W. Pickels, C. C. Wiley.

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(7) LEE, SHELDON SHAOTE, 731 Haven Ave., Ann Arbor, Mich. (Age 24. Born Wantsen, Kiangsi, China.) 1926 B. S. in C. E., Purdue Univ. *TT 2: SP 2.* June 1926 to date Graduate Student, highway engineering and transport (summer session) and municipal administration (sanitary engineering and municipal government), Graduate School, Univ. of Mich. *TT 0.8: P 0.8. TT 2.8: SP 2: P 0.8.* Refers to C. B. Benson, E. L. Eriksen, W. K. Hatt, G. E. Lommel, R. B. Wiley.

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(1) LLOYD, GUSTAVE, 55 Hicks St., Brooklyn, N. Y. (Age 34. Born New York City.) 1910 to 1915 Architectural Draftsman, with Crow, Lewis & Wick, New York City, detailing and designing buildings. *TT 5: SP 5.* May 1915 to June 1917 Timekeeper and Asst. Engr., American Bridge Co., on erection, assisting in interpretation of plans and in directing work. *TT 2.1: SP 2.1.* Dec. 1919 to Sept. 1925 with Hegeman-Harris Co., Bldrs., until May 1922 as Rodman and Asst. Supt. on reinforced concrete construction, then Asst. Supt. and Supt. on two jobs, consisting of buildings, boiler plants and generator foundations, and after Feb. 1925 Asst. Supt. of construction and contract purchasing on job in Chicago, Ill. *TT 5.9: SP 2.9: P 3: RC 3.* Oct. 1925 to date with Fred F. French Co., Archts., Engrs. and Bldrs., New York City, 1 year as Asst. Supt. on work in Florida and on construction of a 40-story office building; since Oct. 1926 Supt. of constr. on several large jobs. *TT 1.4: P 1.4: RC 1.4. TT 14.4: SP 10: P 4.4: RC 4.4.* Refers to F. Bagge, F. P. Canavan, A. H. Connolly, H. W. Deakman, L. H. Lewis, J. Loewenstein.

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(7) LONG, GEORGE VILAS, City Hall, Owosso, Mich. (Age 34. Born Spring Mills, Pa.) 1916 B. of C. E., Ohio State Univ. *TT 2: SP 2.* June to Aug. 1915 Timekeeper, and June 1916 to March 1917 Rodman and Instrumentman, Baltimore & Ohio R. R. *TT 0.7: P 0.7: D 0.7.* April to June 1917 Instrumentman, Whittaker Glesner Co., Portsmouth, Ohio, on blast-furnace construction. *TT 0.2: P 0.2.* July to Sept. 1917 Instrumentman and Draftsman, U. S. Reclamation Service, Torrington, Wyo., on layout of lateral irrigation ditches, surveys and maps. *TT 0.2: P 0.2.* Oct. to Dec. 1917 Instrumentman, Union Pacific R. R. Co., Chf. of Party on construction. *TT 0.2: P 0.2.* April to Dec. 1918 Sergeant, U. S. Army, Chemical Warfare, Edgewood Arsenal, Md., on construction of plant buildings, equipment, setting of machinery, etc. *TT 0.7: P 0.7: RC 0.7.* Jan. to Sept. 1919 Engr., Columbus (Ohio) Ry., Power & Light Co., in charge of engineering on construction of steam-power plant, stack and machinery. *TT 0.7: P 0.7: RC 0.7.* Oct. to Dec. 1919 Engr. and Draftsman, Texas Power Co., Dallas, Tex., on maps and substations. *TT 0.2: P 0.2.* Jan. to April 1920 Asst. Engr., Ohio State Highway Dept., Wauseon, Ohio, location and design. *TT 0.3: P 0.3: D 0.3.* May to Oct. 1920 with Stewart & Rice, Akron, Ohio, on subdivision layout, computations, maps, street grades and estimates. *TT 0.5: P 0.5: RC 0.5: D 0.5.* Nov. 1920 to April 1921 with Penn Mary Coal Co., Reedsville, W. Va., as Draftsman and Chf. of Party on triangulation system, observations, computations and adjustments. *TT 0.5: P 0.5: RC 0.5: D 0.5.* May to Oct. 1921 Asst. Engr., Ohio State Highway Dept., Chardon, Ohio, on location, design, and construction of gravel and concrete roads. *TT 0.5: P 0.5: D 0.5.* Jan. to June 1922 with Constr. Dept., Illinois Div. of Highways, Springfield, Ill., cement authorizations, U. S. awards of State, computations, checking field estimates and contracts. *TT 0.5: P 0.5: July 1922 to May 1923 with Eng. Dept., City of Aurora, Ill., as Asst. on surveys, plans, grades, estimates, walks, curbs, sewers and pavements. TT 0.9: P 0.9: D 0.9. June 1923 to date City Engr., Owosso, Mich., in charge of sewer, pavements, walk, curb, design and construction, Bldg. and Plumbing Inspector. TT 3.7: P 3.7: RC 3.7: D 3.7. TT 12.2: SP 2: P 10.2: RC 6.2: D 7.2.* Refers to C. L. Allen, J. F. Hale, J. M. Heffelfinger, Jr., T. S. Needels, G. F. Schlesinger, E. C. Shoecraft, J. H. Wasson.

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(1) LUDDEN, EDMOND FITZGERALD, 334 West Twenty-Second St., New York City. (Age 38. Born Troy, N. Y.) 1909 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Aug. 1909 to May 1912 Rodman, until Oct. 1910 with Chambers & Howe, Cons. Engrs., New York City, then with

New York State Engr. *TT 2.6: SP 2.6.* May 1912 to June 1916 Asst. Engr., New York State Highway Comm., Albany, N. Y., being Engr. in charge of surveying and constructing roads and pavements, prepared estimates, laid out grades and had full charge of construction in field. *TT 4.1: P 4.1: RC 4.1.* June 1916 to Jan. 1917 Engr. and Asst. Supt. for Dollard & O'Brien, Contrs., Albany, building concrete and asphalt pavement in Whitehall, N. Y. *TT 0.5: P 0.5: RC 0.5.* June 1918 to Jan. 1919 Supervisor, DuPont Eng. Co., Wilmington, Del., in charge of Finished Product Dept., storing and shipping, Tullytown, Pa. *TT 0.5: P 0.5: RC 0.5.* Jan. 1919 to Feb. 1924 not on engineering work. Feb. 1924 to Sept. 1925 Sales Engr., Van Dorn Iron Works Co. of Cleveland, Ohio, in New York office, selling steel shelving, lockers, etc. *TT 1.6: P 1.6.* Sept. 1925 to date Engr., R. H. Laverie & Sons, Inc., Engrs., New York City, structural steel shop and field tests and inspections. *TT 1.4: P 1.4: RC 1.4.* *TT 12.7: SP 4.6: P 8.1: RC 6.5.* Refers to L. T. Alden, C. F. Bornefeld, W. C. Emigh, O. N. Foote, H. O. Schermerhorn, W. M. Stieve.

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(8) **MACLEOD, WILLIAM SPRINGER**, Box 222, Niles Center, Ill. (Age 30. Born Calumet, Mich.) 1922 B. S. in Min., and 1926 E. Met., Mich. Coll. of Mines. 1924 B. S. in Civ. Eng., Univ. of Wis. *TT 2: SP 2.* Feb. 1923 to Feb. 1924 Structural Engr. with James R. & E. J. Law, Archts., Madison, Wis. *TT 1: P 1: D 1.* Feb. to June 1924 Engr., Bridge Dept., Wisconsin Highway Comm., Madison, Wis. *TT 0.4: P 0.4: D 0.4.* June 1924 to Aug. 1925 Inspector and Draftsman and Aug. 1925 to date Chf. Draftsman with Consoer, Older & Quinlan, Cons. Engrs., Chicago, Ill. *TT 2.7: P 2.7: RC 1.5: D 2.* *TT 6.1: SP 2: P 4.1: RC 1.5: D 3.4.* Refers to C. A. Case, E. A. Clark, A. W. Consoer, G. O. Consoer, C. Older, G. A. Quinlan, U. F. Turpin.

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(8) **MCGREW, EDWARD JOSEPHUS, Jr.**, 906 Dempster St., Evanston, Ill. (Age 24. Born Lexington, Mo.) 1927 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Refers to H. K. Barrows, W. M. Fife, B. H. Plepmeier, C. M. Spofford, J. A. L. Waddell.

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(10) **MARKWELL, KENNETH WILLIAM**, Columbian Mutual Tower, Memphis, Tenn. (Age 27. Born Oklahoma City, Okla.) Licensed Engr., State of Tennessee. 1920 B. S. in C. E., Univ. of Okla. *TT 2: SP 2.* Aug. to Sept. 1917 Progress Checker, James Stewart Constr. Co., at Camp Pike. June to Aug. 1918 Jun. Draftsman with Cass Gilbert, Archt., New York City, on Army supply base. Later with U. S. Marine Flying Corps (Officers' Training Corps). June to Sept. 1919 Draftsman for Dickinson & Watkins, Cons. Engrs., Little Rock, Ark. July 1920 to May 1926 Draftsman (1 year) and Chf. Draftsman (5 years), City Eng. Dept., Memphis, Tenn., in charge of design of drainage work, sewers, grade separations, street paving and widening, maps, etc.; collaborate charge of specifications and estimates; supervised construction of building removal and alteration work. *TT 5.8: SP 1: P 4.8: RC 4.8: D 4.8.* May 1926 to date in private practice of civil engineering, including water and sewer systems, surveys, maps, reinforced concrete design, drainage work, etc. (about \$375 000). *TT 0.8: P 0.8: RC 0.8: D 0.8.* *TT 8.6: SP 3: P 5.6: RC 5.6: D 5.6.* Refers to B. B. Brier, J. P. Carey, A. S. Fry, J. H. Haylow, H. N. Howe, W. G. Stromquist, H. A. Wiersema.

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(8) **MASON, HAROLD GORDON**, 124 Hurlburt Court, Libertyville, Ill. (Age 23. Born Libertyville, Ill.) 1927 B. S., Univ. of Ill. *TT 2: SP 2.* Refers to H. Cross, E. E. King, T. D. Mylrea, G. W. Pickels, J. Vawter.

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(13) **MAU, CARL FREDERICK**, 716 Tehama St., Redding, Cal. (Age 31. Born Oakland, Cal.) Aug. 1914 to Jan. 1917 Draftsman and Field Asst. on construction for his father, C. F. Mau, Archt., Oakland, Cal. *TT 2.4: SP 1.9: P 0.5: RC 0.5: D 0.5.* Jan. 1917 to Feb. 1918 Asst. to Supt., Arps Copper Co., Shasta County, Cal., acting as Surveyor, Assayer, Draftsman and Cost Accountant. *TT 1.2: SP 1.2: RC 1.2.* Feb. to Dec. 1918 Flying Cadet, U. S. Army Air Service, training at Univ. of California, and later Aerial Observer for heavy coast artillery, Ft. Monroe, Va. *TT 0.9: SP 0.9.* Feb. to Sept. 1919 Asst. to Supt. of Stanislaus Power House, Sierra & San Francisco Co., California, acting as Cost Accountant. *TT 0.7: SP 0.7.* Feb. 1920 to June 1922 Asst. to Supt., Valdor Dredging Co., Trinity County, Cal., acting as Surveyor, Goldman and Cost Accountant. *TT 2.4: SP 2.4: RC 2.4.* June 1922 to Jan. 1923 with Trinity County, Cal., designing and superintending construction of a reinforced concrete building (County Memorial Hall). *TT 0.6: P 0.6: RC 0.6: D 0.6.* Feb. 1923 to Nov. 1924 Surveyor and Chf. of Survey Party, Land Dept., Pacific Gas & Elec. Co., locating transmission and telephone lines and making surveys. *TT 1.8: SP 1.8: RC 1.8.* Nov. 1924 to Jan. 1925 Hydrographer, Div. of Eng. and Irrigation, Dept. of Public Works, California. *TT 0.2: SP 0.2.* Jan. 1925 to date in private practice, Redding, Cal., surveying, designing

and general consulting work; since Jan. 1927 also County Surveyor, Shasta County. *TT 2.1: P 2.1: RC 2.1: D 2.1. TT 12.3: SP 9.6: P 2.7: RC 8.1: D 3.2.* Refers to H. S. Comly, M. S. Edson, G. C. Green, J. W. Gross, R. G. Wadsworth.

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(10) MEANS, WALKER WILSON, 792 West Peachtree St., Atlanta, Ga. (Age 29. Born Gibson City, Ill.) 1919 B. S., Univ. of Ill. *TT 2: SP 2.* June to Dec. 1918 Asst. Engr., State Water Survey, Urbana, Ill. *TT 0.5: SP 0.5.* July 1919 to March 1920 Concrete Detailer, Paul J. Kalman Co., Chicago, Ill., placing plans and details for reinforced concrete. *TT 0.8: SP 0.5: P 0.3.* March 1920 to June 1921 Engr., A. Bentley & Sons Co., Toledo, Ohio, being Structural Designer and Detailer of construction. *TT 1.2: SP 0.5: P 0.5: D 0.5.* June 1921 to date with Bldg. Products Co., until Oct. 1922 as Engr., at Columbus, Ohio, being Designer and Detailer of reinforced concrete and structural steel, then Branch Mgr., at Dayton, Ohio, engineering service and sale of steel building materials, and since Jan. 1926 Dist. Mgr., at Atlanta, Ga., responsible for steel form work and ornamental iron in the South. *TT 5.8: P 5.8: RC 4.4: D 2. TT 10.3: SP 3.5: P 6.8: RC 4.4: D 2.5.* Refers to E. E. Bauer, W. J. Camlin, J. F. Hale, I. Hausman, R. N. Pardee, C. H. Shook.

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(1) MEMIJE y VIVENCIO DEL ROSARIO, FRANCISCO XAVIER Project Engr., Manila, R. R. Co., Manila, Philippine Islands. (Age 37. Born Manila, Philippine Islands.) Licensed Civ. Engr., Philippine Islands. 1913 A. B., Univ. of the Philippines. 1926 M. S. in C. E., Univ. of St. Tomas. *TT 2: SP 2.* April to June 1912, April 1913 to Oct. 1914 and Feb. 1915 to Aug. 1918 with Bureau of Public Works, Philippine Islands, as follows: April to June 1912 directing construction of a concrete schoolhouse, and April to Nov. 1913 on surveys, inspections on bridge and road construction, etc., Capataz, Pangasinan Eng. Dist., Nov. 1913 to Oct. 1914 Jun. Asst. Engr., 6 months with Pangasinan Eng. Dist., directing construction of a market, river control and road work, and 6 months with Zambales Eng. Dist., on bridge surveys, bridge and water-rights investigations; Feb. to June 1915 Jun. Civ. Engr., Bohol Eng. Dist., on building, bridge and road estimates; June 1915 to Aug. 1918 Jun. Civ. Engr., Asst. and Dist. Engr., Pampanga Eng. Dist., on construction and maintenance of engineering structures, 1½ years in charge of province. *TT 5.3: SP 0.8: P 4.5: RC 1.5.* Oct. 1914 to Feb. 1915 Asst. Engr., Mindoro Development Co., on location surveys of irrigation and drainage ditches, computation of cuts and fills. *TT 0.3: SP 0.3.* Aug. 1918 to date Project Engr. and Asst. Engr., Manila R. R. Co., in charge of design and construction of buildings, bridges, etc.; since 1920 acted as Chf. Engr. in his absence. *TT 8.5: P 8.5: RC 8.5: D 3. TT 16.1: SP 3.1: P 13: RC 10: D 3.* Refers to H. W. Corp, A. Gideon, P. W. Mack, C. G. Morrison, C. Russell, E. S. von Plontkowski, W. C. West.

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(14) MESCH, HAROLD CARL, 4141 DeTonty St., St. Louis, Mo. (Age 27. Born St. Louis, Mo.) 1926 B. S. in Civ. Eng., Univ. of Kans. *TT 2: SP 2.* Oct. 1919 to March 1920. Nov. 1920 to Sept. 1921 and summers 1924 and 1925 with Union Elec. Light & Power Co., St. Louis, Mo., as Adjuster of claims, and (summers) Student Engr. on unit costs in Utility, Accounting and Research Depts. *TT 1.3: SP 1.3.* July 1926 to date Surveyor, U. S. Engrs., on design of plant equipment. *TT 0.6: P 0.6: D 0.6. TT 3.9: SP 3.3: P 0.6: D 0.6.* Refers to E. Boyce, E. C. Constance, W. C. McNown, H. A. Rice, F. A. Russell.

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(4) MORAN, ROBERT PATRICK, 426 Colfax Ave., Scranton, Pa. (Age 25. Born Dunmore, Pa.) 1925 B. S., St. Thomas Coll. Aug. 1920 to Aug. 1921 Draftsman, Glen Alden Coal Co., Scranton, Pa., on boiler, power-plant and pumping station drawings. *TT 1: SP 1.* Aug. to Dec. 1921 Instructor in mathematics and physics, International Correspondence Schools, Scranton; Student Aid. Dec. 1921 to date with Delaware & Hudson Co., as follows: Dec. 1921 to June 1925 Asst. Chf. Draftsman, Hudson Coal Co., Scranton, on power plants, substations, transmission lines, pump station, water purification, sewage disposal, etc., and (Aug. to Sept. 1924) Designer with Evans & Edwards, Utica, N. Y., on repairs and reinforcing coal-storage pockets and trestle; June 1925 to July 1926 Asst. Res. Engr., Chateaugay Ore & Iron Co., Lyon Mountain, N. Y., on design and construction supervision of mill, concentrator, sintering plant, car-wheel foundry, locomotive shed and blast furnace; since July 1926 Designer, Toledo & Western Ry., Toledo, Ohio (1 month), Chazy Marble Lime Co., West Chazy, N. Y. (1 month), and Hudson Coal Co., Scranton, Pa., on design of railway substations, timber railway trestle, buildings and structures; since Sept. 1926 (part of time) Prof. of Structural Eng., St. Thomas Coll. *TT 5.3: SP 1.1: P 4.2: RC 4.2: D 4.7. TT 6.3: SP 2.1: P 4.2: RC 4.2: D 4.7.* Refers to C. H. Buckins, C. R. French, L. D. Matter, C. K. Smoley, H. R. Thayer, G. B. Walker, F. C. Wintermute.

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(5) MORRISS, BENHAM EPES, Care, Virginia Steel Co., Seventeenth and Dock St., Richmond, Va. (Age 25. Born Blackstone, Va.) 1923 B. S., Va. Mil. Inst. 1926 M. S. Mass. Inst. Tech. TT 2: SP 2. June 1923 to Aug. 1924 Draftsman, and Sept. to Nov. 1926 Engr., Truscon Steel Co., Norfolk, Va., designing, detailing and estimating concrete buildings. TT 1.4: SP 1: P 0.4. Nov. 1926 to date Engr., Virginia Steel Co., Richmond, Va., in charge of drafting room, designing, checking and estimating concrete structures. TT 0.1: P 0.1: RC 0.1. TT 3.5: SP 3: P 0.5: RC 0.1. Refers to J. A. Anderson, H. K. Barrows, W. M. Fife, C. M. Spofford, C. H. Sutherland.

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(10) NEBIKER, FRED JOHN, Everglades, Fla. (Age 31. Born Pratteln, Basle, Switzerland.) 1922 C. E. and Hydr. E., Federal Tech. Univ., Zurich, Switzerland. TT 2: SP 2. Oct. 1916 to Oct. 1918 Draftsman with Albert Buss, A. G. Bridge Co., Basle, Switzerland. TT 2: SP 1: P 1. July 1922 to June 1923 Project Engr. for water-power plants, with O. Bosshardt, Cons. Engr., Basle. TT 1: P 1: RC 0.5: D 0.5. July 1923 to Nov. 1924 Designer, Elec. Bond & Share Co., New York City, hydraulic division for water-power plants. TT 1.3: P 1.3: D 1.3. Dec. 1924 to date Office Engr. for Barron G. Collier Interests, New York City, at Everglades, Fla. TT 2.3: P 2.3: RC 1.2: D 1. TT 8.6: SP 3: P 5.6: RC 1.7: D 2.8. Refers to O. H. Ammann, G. Blaauw, H. E. Gruner, W. S. Merrill, H. R. Stamm, H. R. Stocker.

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(1) NEIGHBOUR, ARTHUR GRANDIN, 426 Mt. View Terrace, Dunellen, N. J. (Age 29. Born New York City.) June 1916 to date (except Oct. 1918 to May 1919 with U. S. Army) with Central R. R. of New Jersey, until Nov. 1925 successively as Tracer, Rodman, Leveler and Transitman, at times acting as Chf. of Party, on layout, surveys, construction, maintenance, etc.; since Nov. 1925 Draftsman on plans for track layouts, grade-crossing elimination, maintenance, etc.; work included full charge (under supervision) of laying out and checking construction of five bridges at Somerville, N. J., and of laying out passenger coach yard and engine terminal at Raritan, N. J. TT 10.2: SP 10.2. Refers to A. H. Dakin, H. M. Lathrop, A. E. Owen, H. E. Van Ness, J. J. Yates, A. M. Zabriskie.

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(11) NEWCOMER, ALBERT WALDO, 218 Vassar Ave., Albuquerque, N. Mex. (Age 27. Born Albuquerque, N. Mex.) 1926 B. S. in C. E., State Univ. of N. Mex. TT 2: SP 2. June to Sept. 1919 Tracer, New Mexico State Highway, June 1920 to Feb. 1921 Draftsman and Levelman, U. S. Bureau of Public Roads, plotting profiles, estimating quantities, etc. TT 0.6: SP 0.6. Sept. 1921 to Aug. 1923 Office Engr. and Chf. of survey party, with State Engr. of New Mexico, on surveys. TT 2: SP 2: RC 2. June to Sept. 1924 Instrumentman on water pipe-line and distribution system for Town of Hot Springs, N. Mex. June 1926 to date Draftsman, Middle Rio Grande Conservancy Dist., Albuquerque. TT 0.8: SP 0.8. TT 5.4: SP 5.4: RC 2. Refers to J. L. Burkholder, W. C. Davidson, C. C. Elder, J. N. Gladding, C. H. Howell.

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(9) NIELSEN, KNUD SIGURD BUHL, L. B. Harrison Hotel, Cincinnati, Ohio. (Age 26. Born Hedensted, Denmark.) 1924 B. S., Royal Tech. Coll. of Eng., Copenhagen. TT 2: SP 2. July 1924 to March 1925 Structural Detailer, Hedden Iron Constr. Co., Newark, N. J. TT 0.7: SP 0.7. March and April 1926 Checker, structural, Newport News (Va.) Dry Dock Co. TT 0.2: SP 0.2. March 1925 to March 1926 and May 1926 to date with Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., 1 year as Draftsman, drafting, designing and rating structures, and since May 1926 Designer on Louisville & Jefferson Bridge, investigating present structure, on design of viaduct, etc. TT 1.8: SP 1: P 0.8: RC 0.8: D 0.8. TT 4.7: SP 3.9: P 0.8: RC 0.8: D 0.8. Refers to R. W. Bame, A. M. Westenhoff.

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(11) O'CONNELL, THOMAS SARAFIELD, 844 North Ninth Ave., Phoenix, Ariz. (Age 38. Born San Francisco, Cal.) Jan. 1909 to Nov. 1913 with Southern Pacific Co., until May 1913 as Chainman, Rodman, Levelman, Transitman and Instrumentman, then Asst. Engr., Bakersfield (Cal.) Div., staking out, estimating, etc. TT 4.9: SP 4.9. Nov. 1913 to May 1917 Asst. Engr., Arizona Highway Dept., on location and construction of highways and bridges. TT 3.5: P 3.5: RC 3.5: D 3.5. May 1917 to May 1919 with U. S. Army, until Aug. 1917 at Officers' Training Camp, then 1st Lieut., 362d Infantry, 91st Div., acting as Div. Instructor and planning and supervising construction of field fortification, and (after June 1918) with A. E. F. TT 0.9: P 0.9: RC 0.9: D 0.9. May 1919 to date Location Engr. and Dist. Engr., Arizona Highway Dept., location and construction of roads and bridges, supervision of highway district. TT 7.6: P 7.6: RC 7.6: D 4. TT 16.9: SP 4.9: P 12: RC 12: D 8.4. Refers to A. F. Harter, W. W. Lane, G. L. McLane, T. Maddock, C. Miller, J. S. Mills, C. G. Morrison, C. C. Small.

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(1) **ORTENBLAD, ALBERTO**, Rua Conde de Baependy, 62, Rio de Janeiro, Brazil. (Age 26. Born Jaboticabal, Sao Paulo, Brazil). 1922 B. S. in C. E., Mackenzie Coll., San Paulo, Brazil. 1925 A. M., Harvard Univ. 1926 Sc. D., Mass. Inst. Tech. *TT 2: SP 2.* Feb. to June 1923 Surveyor and Topographer, coffee plantation farm, and Designer coffee packing plant and masonry church, Tabapuan, Sao Paulo, Brazil. *TT 0.4: P 0.4: RC 0.4.* *TT 2.4: SP 2: P 0.4: RC 0.4.* Refers to C. M. Spofford, C. H. Sutherland, C. Terzaghi. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(1) **PATTON, DAVID HAMMOND**, 609 West 114th St., New York City. (Age 26. Born Albany, N. Y.) 1918 to 1919 Rodman and Draftsman with W. H. Adey, Albany, N. Y., on surveys, maps, estimates. *TT 1: SP 1.* 1919 to 1921 Draftsman and Chf. of Survey Party, New York Central R. R. on surveys, track and building layout, office work. *TT 2: SP 2.* 1921 to 1922 in private practice, Albany, associate of C. C. Delack, on surveys, estimates and design. *TT 1: P 1: D 0.5.* Jan. 1922 to June 1924 Res. Engr., Central R. R. of New Jersey, on track and bridge design, in responsible charge of field construction, track, building, bridge and sewer layout. *TT 2.5: P 2.5: RC 1: D 0.5.* June 1924 to Nov. 1925 Asst. Engr., Standard Fruit Co., on bridge design and construction, railroad location. *TT 1.5: P 1.5: RC 1: D 0.5.* Nov. 1925 to date Asst. Engr., N. Y. C. R. R., in responsible charge of field construction, bridges and buildings. *TT 1.2: P 1.2: RC 1.2.* *TT 9.2: SP 3: P 6.2: RC 3.2: D 1.5.* Refers to W. H. Adey, A. W. Blyth, A. H. Dakin, L. W. Greene, H. M. Lathrop, H. E. Van Ness.

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(10) **PERRY, BRUCE MCKINNEY**, 705 Fourth and First National Bank Bldg., Nashville, Tenn. (Age 23. Born Montgomery, Ala.) 1925 B. E., Vanderbilt Univ. *TT 2: SP 2.* June to Sept. 1924 Foreman on concrete paving with A. E. Perry, Manitou, Colo. Sept. to Nov. 1924 (while student) on topographic surveys and mapping. July-Sept. 1925 Foreman on concrete and brick paving, E. A. Finch Paving Co., Hattiesburg, Miss. *TT 0.3: SP 0.3.* Nov. 1925 to Oct. 1926 Rodman and Instrumentman, Atlantic Coast Line R. R. Co. *TT 0.9: SP 0.9.* Oct. 1926 to date Res. Engr. with Klyce & Harrub, Engrs., Nashville, Tenn., on rock asphalt paving. *TT 0.4: P 0.4: RC 0.4.* *TT 3.6: SP 3.2: P 0.4: RC 0.4.* Refers to E. H. Deets, C. N. Harrub, B. H. Klyce, W. E. Wilbur, J. Wilkes.

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(15) **PETTY, DABNEY ELIJAH**, 10 Tenth St., San Antonio, Tex. (Age 35. Born Olive, Tex.) Student, Georgia School of Technology (1913 to 1914), Univ. of Texas (1914 to 1916), and Cornell Univ. (special work) (1923 to 1924). *TT 1.3: SP 1.3.* Aug. 1916 to March 1917 Asst. Geologist, The Texas Co., planetable work, etc. *TT 0.6: SP 0.6.* March 1917 to March 1918 Geologist, Sinclair Oil Corporation, geological survey of Costa Rica and Panama. *TT 1: P 1.* March to June 1918 Cons. Geologist, with Petty & Smith, San Antonio, Tex. *TT 0.2: P 0.2: RC 0.2.* June 1918 to April 1919 with 5th Engrs., U. S. Army, on engineering work in France. *TT 0.8: SP 0.8.* April 1919 to Oct. 1922 Cons. Geologist and Petroleum Engr., at San Antonio, and Houston, Tex., general consulting and management of oil properties. *TT 3.5: P 3.5: RC 3.5.* Oct. 1922 to Aug. 1923 on geological explorations in Nigeria, Camaroons, Gold Coast, Dabonny, etc., West Africa, private; also some investigations as to possible water power. *TT 0.8: P 0.8: RC 0.8.* 1923 to 1924 Student, and Asst. Instructor in Geology, Cornell Univ. June 1924 to June 1925 Associate Geologist, Bureau of Economic Geology and Technology, Univ. of Texas, laboratory and field work. *TT 1: P 1: RC 1.* July 1925 to date Chf. Geologist, Petty Geophysical Eng. Co., San Antonio, seismological surveys, etc., 6 months on research work. *TT 1.5: P 1.5: RC 1.5.* *TT 10.7: SP 2.7: P 8: RC 7.* Refers to E. C. H. Bantel, F. E. Giesecke, A. S. McMaster, O. S. Petty, T. U. Taylor.

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(13) **POPP, WILLIAM LOUIS**, 63 Lenzen Ave., San Jose, Cal. (Age 31. Born San Jose, Cal.) 1917 A. B. in C. E., Stanford Univ. *TT 2: SP 2.* June to Oct. 1917 Instrumentman, U. S. Reclamation Service. *TT 0.4: P 0.4.* Nov. 1917 to Sept. 1918 Instrumentman, Dept. of Public Works, San Jose, Cal. *TT 0.8: P 0.8.* Sept. to Dec. 1918 2d Asst. City Engr., Dec. 1918 to May 1921 1st Asst. City Engr., and May 1921 to date City Engr., San Jose. *TT 8.4: P 8.4: RC 8.2.* *TT 11.6: SP 2: P 9.6: RC 8.2.* Refers to H. Bartholemew, E. O. Billwiller, C. G. Gillespie, C. E. Healy, J. G. McMillan, C. D. Marx, L. B. Reynolds, O. C. Tretten, C. B. Wing.

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(11) **PROCTOR, RALPH ROSCOE**, 412 Salem St., Glendale, Cal. (Age 32. Born Grayslake, Ill.) Sept. 1912 to June 1914 student in Civ. Eng., Univ. of Southern California. *TT 0.7: SP 0.7.* June to Sept. 1913 Chainman and Instrumentman, and June to Sept. 1914 Chainman and Draftsman, Dept. of Water and Power, Los Angeles, Cal. *TT 0.3: SP 0.3.* Sept. 1914

to March 1916 Chainman and Instrumentman with Edward M. Lynch, Los Angeles. *TT 1.5: SP 1.2: P 0.3.* April 1916 to Dec. 1917 in charge of field party, location and construction surveys, San Fernando Valley Dist. System, 4 months in charge of two parties. *TT 1.5: P 1.5: RC 0.4.* Dec. 1917 to July 1919 Private, Co. E. 23d U. S. Engrs., 1½ years with A. E. F. *TT 1.5: SP 1.3: P 0.2.* July 1919 to date with Dept. of Water and Power, Los Angeles, until Oct. 1920 as Draftsman, then in charge of development of triangulation systems into newly annexed territories (1½ years), of survey party on location and construction for enlargement of system (1½ years) and of special surveys to determine location of new dams, reservoirs, trunk lines, etc. (6 months); since April 1924 in charge of field surveys; design of conduits, tunnels, spillways, pipe lines, etc., on general water-works construction. *TT 7.6: SP 1.1: P 6.5: RC 4.8: D 1.2.* *TT 13.1: SP 4.6: P 8.5: RC 5.2: D 1.2.* Refers to E. A. Bayley, T. Brooks, W. W. Hurlbut, H. L. Jacques, W. Mulholland, J. E. Phillips, H. A. Van Norman.

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(6) RICKARD, GROVER EDGAR, 1909 Warwood Ave., Wheeling, W. Va. (Age 36. Born Howes Cave, N. Y.) 1913 A. B., and 1916 C. E., Cornell Univ. *TT 2: SP 2.* April to Aug. 1916 Rodman and Inspector, City of Oneonta, N. Y. *TT 0.4: SP 0.4.* Aug. to Sept. 1916 San. Inspector, New York State Dept. of Health. *TT 0.1: SP 0.1.* Oct. 1916-Nov. 1917 Draftsman on sewage-treatment works, Cleveland, Ohio; Chemist in experimental sewage station; designed and was Asst. to Res. Engr. on construction of East 140th St. overflow channel. *TT 1.2: SP 1: P 0.2: D 0.2.* Dec. 1917 to Feb. 1920 designed sewage-treatment works for Meadville, Pa., and water-treatment plant at Leetsdale, Pa.; Chemist and Bacteriologist; preliminary design of sewage-treatment works for Erie, Pa.; some supervision of construction of water-purification plants and of operation of water plants, etc. *TT 2.2: SP 0.7: P 1.5: D 1.5.* Feb. to Aug. 1920 with American City Eng. Co.; had charge of Sewage-Treatment and Sewerage Dept.; designed sanitary and storm-water sewers for Jeanette, Pa., Kent, Ohio, Studebaker Co., South Bend, Ind., and several sewage-treatment works. *TT 0.5: P 0.5: RC 0.5: D 0.5.* Aug. 1920 to June 1923 Chemist and Bacteriologist, Water Dept., Memphis, Tenn., designed water mains for subdivisions and iron-removal plant for a small town, supervised operation of swimming pools. *TT 2.8: P 2.8: D 0.5.* June to Dec. 1923 supervised operation of swimming pools; designed 300 000-gal. iron-removal plant for West Memphis, Ark. *TT 0.5: P 0.5: RC 0.5: D 0.2.* Dec. 1923 to Dec. 1924 designed improvements to water plant at Shreveport, La., and sewage-treatment plant at Commodore, Pa., Res. Engr. on construction at Commodore; supervised operation of water-treatment plants, etc. *TT 0.9: P 0.9: D 0.6.* Dec. 1924 to date Chemist and Supt. of filtration of 20 000 000-gal. plant., Wheeling, W. Va., in complete charge of operation. *TT 2.2: P 2.2: RC 2.2: TT 12.8: SP 4.2: P 8.6: RC 3.2: D 3.5.* Refers to J. T. Campbell, J. N. Chester, D. E. Davis, T. Fleming, Jr., G. B. Gascoigne, A. D. Keagy, J. F. Laboon.

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(1) ROSS, EDMUND SWAIN, 306 Orient Way, Rutherford, N. J. (Age 32. Born Grand Junction, Colo.) 4 years (evenings) student in Civ. Eng., Columbia Univ. June 1912 to June 1915 Engr. for W. L. Whitmore, C. E., on real-estate development, highway, sewer and municipal work. *TT 3: SP 2.9: P 0.1: RC 0.1.* June 1915 to June 1920 (except 1½ years with Co. H, 23d Engrs., U. S. Army) Supt., Haenichen Eng. Corporation, on apartment house and industrial building construction. *TT 4: P 4: RC 4.* June 1920 to June 1923 Asst. Supt., White Constr. Co., on industrial building construction. *TT 3: SP 3.* June 1923 to June 1925 Asst. Supt., F. Snare Corporation, on construction of electric generating station for Brooklyn Edison Co. *TT 2: P 2: RC 2.* June 1925 to date Supt. and Gen. Foreman, W. E. Kenny Co., New York City, on gas and electric generating stations. *TT 1.5: SP 0.5: P 1: RC 1.* *TT 13.5: SP 6.4: P 7.1: RC 7.1.* Refers to H. J. Carroll, J. H. Gaynor, R. C. Latimer, F. Mason, W. C. Rohdenburg, T. K. Thomson.

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(2) RUDOLPH, EDWARD ALLAN, Care, Stone & Webster, Inc., Boston, Mass. (Age 31. Born Bowling Green, Ohio.) 1918 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Aug. 1919 to Jan. 1920 Material Estimator and Detailer, Lackawanna Bridge Co., Buffalo, N. Y. *TT 0.5: SP 0.5.* Feb. 1920 to July 1921 Designer, Southern Power Co., Charlotte, N. C., designing and drafting on hydro-electric power plants. *TT 1.5: SP 0.4: P 1.1: D 1.1.* Aug. 1921 to July 1922 Designing Draftsman, North Carolina State Highway Comm., Raleigh, N. C., highway bridge and culvert design, standard designs, steel and reinforced concrete bridges. *TT 1: P 1: D 1.* Aug. 1922 to Dec. 1924 Jun. Engr., West Penn Power Co., Pittsburgh, Pa., preliminary investigations, designs, etc., hydro-electric projects. *TT 2.4: P 2.4: RC 0.8: D 1.6.* Jan. 1925 to date Engr., Hydr. Div. Stone & Webster, Inc., preliminary investigation and designs; final

plans, hydro-electric projects. *TT 2.2: P 2.2: RC 2.2. TT 9.6: SP 2.9: P 6.7: RC 3: D 3.7.* Refers to A. G. Cherry, H. A. Hageman, L. N. Reeve, R. M. Riegel, F. W. Scheidenhelm, G. R. Strandberg, J. H. Winter.

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(15) **SAGER, GEORGE HENRY, Jr.**, 611 Gravier St., New Orleans, La. (Age 32. Born Yellville, Ark.) Oct. 1914 to June 1915 student, Sheffield Scientific School, Yale Univ. *TT 0.3: SP 0.3.* June-Dec. 1915 Jun. Engr., James Stewart & Co., Inc., setting courses and estimating yardage on Barge Canal contract at Baldwinsville, N. Y. *TT 0.6: SP 0.6.* May-Dec. 1916 Rodman and Asst. to Res. Engr. on construction, The Cumberland Pipe Line Co., Winchester, Ky., on oil line surveys, installing pumping stations and tank farms. *TT 0.7: SP 0.7.* Jan. 1917-Feb. 1918 in private practice, at Irvine and Winchester, Ky., mapping, etc., for oil companies and others. *TT 1.2: SP 1.2.* July to Sept. 1918 Sergeant in charge of construction, U. S. Army B. H. No. 40, construction of 60 000-gal. activated sludge sewage-disposal plant near Southampton, England. *TT 0.3: SP 0.3.* May 1919 to June 1920 surveying, mapping and reports, six months as Mgr. of properties of Allen-McLean Oil Co. of Frankfort, Ky., then in private practice at Shreveport, La. *TT 1.2: SP 1.2.* Jan. to July 1923 Gen. Mgr., The Sager Constr. Co., Monroe, La., having general supervision on construction of dwellings and two small industrial plants. *TT 0.5: SP 0.5.* Aug. 1923 to Nov. 1924 Asst. Res. Engr. with Geo. F. Hardy, New York City, on construction of Brown Paper Mill, Monroe, La., being Asst. to Res. Engr., on inspection, layout, supervision, and installation of machinery. *TT 1.3: P 1.3: RC 1.3.* Dec. 1924 to date with Ford, Bacon & Davis, New York City, until Sept. 1925 as Field Engr. on construction of power plant for Louisiana Power Co. at Sterlington, La., being Asst. to Res. Engr. on inspection, layout and supervision, then Supt. of Constr., completing this plant, and since Jan. 1926 Asst. Engr. in charge of surveys, foundation tests, approach plans and start of construction of Lake Pontchartrain Bridge for New Orleans Pontchartrain Bridge Co. *TT 2.3: P 2.3: RC 2.3. TT 8.4: SP 4.8: P 3.6: RC 3.6.* Refers to A. L. Black, L. E. Loxley, W. E. Swift, F. J. Trelease, P. A. Trost.

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(5) **SCHUSTER, JOHN HOWARD**, 3804 Copley Rd., Baltimore, Md. (Age 32. Born Baltimore, Md.) 1912 graduated, Baltimore Poly. Inst. Sept. 1912 to Sept. 1914 Draftsman, Carnegie Steel Co., Baltimore, Md., minor structural steel detailing. *TT 2: SP 2.* Sept. 1914 to May 1926 Draftsman, and later Asst. Chf. Draftsman in charge of drafting and on structural steel and concrete design with Dietrich Bros., Baltimore; 1921 to 1926 (spare time) also on design and detail work for Maryland Steel Products Co., Baltimore. *TT 11.7: SP 5.2: P 6.5: RC 6.5: D 6.5.* May 1926 to date Estimator and Designer, Chas. L. Stockhausen Co., Inc., Gen. Contrs., Baltimore, general design and architecture for industrial buildings. *TT 0.8: P 0.8: RC 0.8: D 0.8. TT 14.5: SP 7.2: P 7.3: RC 7.3: D 7.3.* Refers to C. R. Burdette, H. F. Doeleman, J. M. Russell, G. C. Saunders, W. C. Schnabel.

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(8) **SMITH, ARDIS**, Box 331, Pinckneyville, Ill. (Age 27. Born Little Rock, Ark.) 1922 B. C. E., Univ. of Ark. *TT 2: SP 2.* July to Oct. 1922 Inspector on concrete paving, with L. R. Parmelee, Helena, Ark. *TT 0.3: SP 0.3.* Oct. 1922 to date with Div. of Highways, Dept. of Public Works and Bldgs., Springfield, Ill. *TT 4.3: SP 1.7: P 2.6: RC 2.6. TT 6.6: SP 4: P 2.6: RC 2.6.* Refers to C. R. Dooling, F. G. Dyhrkopp, L. Schwartz, R. A. Trufant, W. W. Zass.

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(1) **SMITH, GEORGE RUDOLPH**, 4 Wheeler Ave., Pleasantville, N. Y. (Age 22. Born Lancaster, Pa.) 1926 B. S., C. E. School, Pa. State Coll. *TT 2: SP 2.* June to Sept. 1923 Recorder, Timekeeper, etc., with J. H. Wickersham, C. E., Lancaster, Pa. July 1926 to date Asst. to Village Engr., Pleasantville, N. Y. *TT 0.7: SP 0.7. TT 2.7: SP 2.7.* Refers to J. C. Brigham, A. S. Hathaway, R. O'Donnell, R. L. Sackett, E. D. Walker, J. H. Wickersham.

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(8) **SOLTAU, DAVID LIVINGSTONE**, 900 North La Salle St., Chicago, Ill. (Age 36. Born Launceston, Tasmania.) 1909 B. S., Northwestern Univ., Evanston, Ill. *TT 2: SP 2.* July 1909 to Sept. 1910 Rodman, Instrumentman and Res. Engr., State Highway Dept., Washington, on construction and location. *TT 1.2: SP 0.4: P 0.8: RC 0.8.* Sept. 1910 to June 1911 Graduate Asst., Physics Dept., Univ. of Washington. *TT 0.7: P 0.7.* July 1911 to March 1912 in private practice, surveying, etc., Port Angeles, Wash. *TT 0.7: P 0.7.* April 1912 to July 1916 Draftsman, Northern Pacific Ry. *TT 4.3: SP 4.3.* Aug. 1916 to Aug. 1917 Field Service Representative, McGraw-Hill Publishing Co., editorial, advertising and circulation, in Pacific Northwest. *TT 1: P 1.* Aug. 1917 to Nov. 1920 with U. S. Army at Second Reserve Officers' Training Camp, San Francisco, Cal. (Aug.-Nov. 1917), 1st Lieut., Air Service (Nov. 1917-Feb. 1919), Spruce Production Div., railroad surveys and construction,

Adjt., Lake Pleasant Sub District; after March 1919 1st Lieut. and Capt., Air Service, Utilities Br., Constr. Div., Q. M. Corps, Camp Lee, Va., and Headquarters, 6th Corps Area, Chicago, Ill.; at present Capt., E. O. R. C. *TT 3: SP 0.2: P 2.8: RC 1.3.* May 1921 to Sept. 1926 with Presbyterian Board of Foreign Missions, Pyongyang, Korea, in charge, design and construction of buildings; Chairman, Mission Property Committee; consulting work for other missions in Korea, teaching, Union Christian Coll. Oct. 1926 to date on furlough studying architecture. *TT 5.3: P 5.3: RC 3.3: D 2.* *TT 18.2: SP 6.9: P 11.3: RC 5.4: D 2.* Refers to R. S. Beard, H. O. Blair, N. A. Bowers, H. L. Bowlby, A. H. Fuller, C. C. More, A. O. Rose.

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(4) **SPECHT, GEORGE NICOLAUS PAUL**, 246 South Third St., Philadelphia, Pa. (Age 37. Born Frankfurt a/Main, Germany.) Licensed Engr. and Land Surveyor, State of New Jersey, 1909 Engr. and Land Surveyor, Acad. of Agri. and Geodesy, Bonn, Germany. 1926 received diploma of proficiency in Concrete and Structural Eng., International Correspondence Schools. May 1905 to April 1907 Apprentice in engineering and land surveying, with Paul Kuenkler, Engr. and City Surveyor, Frankfurt, Germany, calculating, plotting, transit and level work, etc. *TT 1.9: SP 1.9.* Aug. 1909 to March 1910 Land Surveyor with H. Westerhoff, Engr. and Surveyor, Haspe, Germany field and office work, including supervision. *TT 0.6: SP 0.6.* March to Aug. 1910 Engr. and Land Surveyor with Mr. Wiegand, City Surveyor, Muelheim, Germany, completing topographical survey for street layout and approaches for bridge crossing railroad, including calculations for fills, staking out and grades and supervision. *TT 0.4: SP 0.1: P 0.3: RC 0.3.* Dec. 1910 to Oct. 1912 Engr. and Land Surveyor associated with H. Lipke, Konitz, Germany, supervising construction of city streets, sidewalks, macadam roads, sewers, etc., surveys, including calculations, etc., also designing agricultural bridges. *TT 1.9: P 1.9: RC 1.9.* 1913-1925 Accounting, cost-accounting and industrial engineering. Jan. 1926 to date Engr. and Land Surveyor with Remington & Vosbury, Civ. Engrs., calculations, plotting, supervision of grading and construction of streets, etc., grades and grade and assessment maps, etc. *TT 1: P 1: RC 1.* *TT 7.8: SP 4.6: P 3.2: RC 3.2.* Refers to J. A. Baker, A. B. Depuy, W. A. Goff, J. C. Remington, Jr., H. R. Thayer.

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(5) **STEINBERG, SAMUEL SIDNEY**, College Park, Md. (Age 35. Born New York City.) 1910 B. E., and 1913 C. E., Cooper Inst. *TT 2: SP 2.* June 1910 to Jan. 1913 Chairman. Div. No. 1, and June 1914 to Jan. 1918 Asst. Engr., Div. No. 5, New York State Highway Dept., being Engr. in charge of surveys and construction. *TT 6: SP 2.2: P 3.8: RC 3.8.* 1913 Asst. Engr., Tela R. R. Co. (United Fruit Co.), in charge of railroad surveys and construction. *TT 1: P 1: RC 1.* Jan. to June 1914 Jun. Engr., New York Public Service Comm. (First Dist.), on construction, Broadway-Lexington Ave. Subway. *TT 0.5: P 0.5: RC 0.5.* Jan. to March 1918 Road Expert, U. S. Govt. at Otisville, N. Y., in charge of road and bridge construction on hospital reservation. *TT 0.3: P 0.3: RC 0.3.* March to Sept. 1918 Asst. State Highway Engr., South Carolina State Highway Dept., in charge of surveys and plans for Federal-Aid road projects. *TT 0.5: P 0.5: RC 0.5.* Sept. 1918 to Oct. 1920 Asst. Prof. of Civ. Eng. and Oct. 1920 to date Head of Dept. and Prof. of Civ. Eng., Univ. of Maryland; since Oct. 1925 (part of time) also Asst. Director, Highway Research Board and National Research Council; summer 1919 Asst. Engr., Delaware State Highway Dept. on road construction. Summers 1920-1923 with U. S. Bureau of Public Roads, as Chf. of Road Survey Party on highway research (1920), Special Research Asst., Asst. Research Asst. (1922), and Highway Research Specialist (1923). Summer 1924 Asst. Director, and summer 1925 Acting Secy., earth roads investigation, Highway Research Board, National Research Council. *TT 8.3: P 8.3: RC 8.3.* *TT 18.6: SP 4.2: P 14.4: RC 14.4.* Refers to C. D. Curtiss, A. B. Fletcher, A. T. Goldbeck, A. N. Johnson, C. J. Tilden.

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(15) **STILES, ROBERT WALTER**, P. O. Box 538, Crockett, Tex. (Age 34. Born Austin, Tex.) 1912 to 1916 Student, Agricultural and Mechanical Coll. of Texas. *TT 1.3: SP 1.3.* Dec. 1919 to Dec. 1921 Dist. Engr., Ellis County (Tex.) Levee Improvement Dist. No. 3, on surveys, design and reconstruction of levees and gravity drainage outlets; Oct. 1920 to May 1921 also Asst. to Dist. Engr., Dist. No. 2, on construction of interior drainage canal and concrete gravity outlet. *TT 2: P 2: RC 2: D 0.5.* June 1922 to May 1925 Dist. Engr., Houston County (Tex.) Levee Improvement Dists. No. 1 and (after Aug. 1923) No. 2, on design and construction of two flood reclamation projects (\$210 000 and \$400 000), including concrete outlets; 58 000-gal. steam pumping plant, oil-electric pumping plant of 40 000 gal. and topographic mapping, and 10 miles river levees; Aug. to Sept. 1924 also Project Engr. for W. T. Bruton, on surveys, design and construction of \$40 000 reclamation project on Trinity River, including levees and drainage outlet. *TT 3: P 3: RC 3: D 1.5.* April 1925 to Oct. 1926 Dist. Engr. until May 1926 of Houston County Levee Improvement Dist. No. 3 on survey,

design and construction of \$150 000 flood reclamation and drainage project, including levees, ditches, outlet and concrete pump house, and after July 1926 of Dist. No. 1, on resurvey and on appraisal report and redistribution of benefits. TT 1.3: P 1.3: RC 1.3: D 0.6. TT 7.6: SP 1.3: P 6.3: RC 6.3: D 2.6. Refers to M. C. Crawford, O. N. Floyd, E. N. Noyes, A. A. Stiles, F. J. Von Zuben.

(8) STRAUB, LORENZ GEORGE, 103 South Sixth St., Champaign, Ill. (Age 25. Born Kansas City, Mo.) 1923 B. S., and 1924 M. S., in Civ. Eng., Univ. of Ill. TT 2: SP 2. June to Sept. of years 1919 and 1920 Timekeeper and Carpenter, Pratt-Thompson Constr. Co., Kansas City, Mo. TT 0.3: SP 0.3. June to Aug. 1921 military student, U. S. Engrs., Humphreys, Va. June to Sept. 1922 Supt. of Constr. on residences and store buildings, E. J. Straub Co., Kansas City. June 1923 to date (except 2 years graduate student, Univ. of Illinois, and May to June 1925 Special Designer, Jones-Hettelsater Constr. Co., on design of reinforced concrete cantilever foundation for Purina Flour Mills at Buffalo, N. Y.) with Burns & McDonnell Eng. Co., Kansas City, as Draftsman and Designer on detailing and checking structural design (summer 1923), and Structural Engr. on reports and design of water-works and other municipal plants, including designs of underground reservoirs, filter plants, arches, hollow concrete dams, etc., for Springfield, Ill., Port Arthur, Tex., Lake Charles, La., Flagstaff, Ariz., Ponca City, Okla., Port Angeles, Wash., and Unity City, Mo., etc. TT 3.8: P 3.8: RC 1.9: D 1.8. TT 6.1: SP 2.3: P 3.8: RC 1.9: D 1.8. Refers to H. Cross, M. P. Hatcher, H. H. Jordan, R. E. McDonnell, T. D. Mylrea, C. S. Timanus, C. C. Williams.

(1) TIER, FRED HAGEMEYER, 82 Orient Ave., Jersey City, N. J. (Age 24. Born Jersey City, N. J.) Student in general science, Cooper Union (2 years) and in extension courses, Columbia Univ. (past 1½ years). Sept. 1922 to Oct. 1923 cost accounting of manufacturing processes, National Carbon Co. TT 1: SP 1. July 1920 to Aug. 1922 and Nov. 1923 to date Draftsman, successively with Vulcan Iron Works, Brunswick Balke Collender Co., Robert Gair Co. and Gen. Eng. & Management Corporation, on machine and architectural work, plant and mechanical layouts, maintenance of plants, etc. TT 5.5: SP 5.5: D 2. TT 6.5: SP 6.5: D 2. Refers to J. K. Finch, G. P. Jones, P. A. Kelly, C. A. McCollough, R. H. Stearns.

(1) VALENTINE, ALLARD MAYO, 58 Morton St., New York City. (Age 25. Born Boston, Mass.) 1923 B. S., Mass. Inst. Tech. TT 2: SP 2. July 1923 to Feb. 1924 Instrumentman with Sanderson & Porter, New York City, on transmission line survey and construction in West Virginia and Maryland. TT 0.6: SP 0.6. Feb. 1924 to date with Rust Eng. Co., Pittsburgh, Pa., as Draftsman (6 months), Designer and Estimator (1 year), Field Engr., Asst. Supt. of Constr. (nearly 1 year) and Supt. of Constr. (about 7 months). TT 3: SP 0.5: P 2.5: RC 0.6. TT 5.6: SP 3.1: P 2.5: RC 0.6. Refers to H. K. Barrows, F. Mason, C. G. Thornburgh, C. M. Spofford, L. C. Wason.

(1) VON BUEHREN, WILLIAM FREDERICK, 3215 Bainbridge Ave., New York City. (Age 31. Born New York City.) 1921 B. S., Cooper Union Night School. Licensed Prof. Engr. and Land Surveyor, New York State. Nov. 1916 to Feb. 1923 with Third Ave. Ry. System, New York City, on surveys, maintenance, etc., 2 years as Foreman and after Jan. 1921 supervising in field and office, being Chf. of Party. TT 6.3: SP 2.2: P 4.1: RC 4.1. Feb. 1923 to date Assistant Designer in steel and concrete, successively with H. R. Kent & Co., Rutherford, N. J., Surety Eng. Co., C. W. Hunt Co., West New Brighton, N. Y., and The Nicholson Co., New York City, designed buildings, power houses, turbine foundations, material bins, elevated tanks, retaining walls, conveyor bridges, steeple towers, coaling stations, trusses, silos, coal plants, etc. TT 4.1: P 4.1: D 4.1. TT 10.4: SP 2.2: P 3.8: RC 4.1: D 4.1. Refers to J. R. Alkenhead, J. A. Knighton, J. C. Riedel, E. M. T. Ryder, C. T. Schwarze, M. H. Van Buren.

(13) WALDORF, WALLACE ASTOR, 1875 Ninth Ave., San Francisco, Cal. (Age 23. Born Palo Alto, Cal.) 1926 B. S. in Mech. Eng., Univ. of Cal. TT 2: SP 2. July 1926 to date Chairman, Land Dept., Pacific Gas & Elec. Co. TT 0.6: SP 0.6. TT 2.6: SP 2.6. Refers to R. E. Davis, C. Derleth, Jr., F. S. Foote, B. Jameyson.

(9) WATKINS, JAMES STEPHEN, 112 Washington, Frankfort, Ky. (Age 34. Born near London, Ky.) Sept. 1912 to Jan. 1915 and Feb. to April 1916 student in engineering and (1916) in special highway course, Univ. of Kentucky. TT 0.6: SP 0.6. Summer 1911 Rodman, summer 1912 Chainman, and May 1915 to Jan. 1916 Levelman and Transitman, with Samuel Mori, Civ. and Min. Engr., Kona, Ky., on surveys and highway location, Laurel

County. TT 1.2: SP 1.2. April 1916 to May 1918 County Road Engr., Laurel County, in charge of construction, design and location of roads. TT 2.1: P 2.1: RC 2.1: D 0.7. Sept. 1918 to Jan. 1919 at Field Artillery Officers' Training School, U. S. Army; became 2d Lieut. TT 0.3: P 0.3. March to May 1919 Draftsman and Instrumentman, Goodyear Tire & Rubber Co. of Akron, Ohio. TT 0.2: P 0.2: D 0.1. July 1919 to date with Kentucky State Highway Dept. (known as Dept. of Public Roads, Dept. of State Roads and Highways, and since April 1926 as State Highway Dept.), until Sept. 1919 as Res. Engr., on 8-mile grade and drain construction, Rockcastle County; Sept. 1919 to July 1924 Dist. Engr. in charge of location, field plans, construction and maintenance; July 1924 to March 1925 Asst. Engr. of Constr., in central office assisting in directing construction operations; since March 1925 First Asst. State Highway Engr. TT 7.7: P 7.7: RC 7.5: D 0.6. TT 12.1: SP 1.3: P 10.3: RC 9.6: D 1.4. Refers to C. R. Bloxton, P. D. Gillham, J. M. Johnson, J. T. Lynch, D. V. Terrell, E. N. Todd.

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(9) WEAVER, FRANK ELMER, 218 North Eighth St., Hamilton, Ohio. (Age 51. Born Sidney, Ohio.) April 1895 to June 1924 with City of Hamilton, Ohio, until Feb. 1910 successively as Rodman, Transitman and Asst. Engr., and after Feb. 1910 City Engr. TT 29.2: SP 5: P 24.2: RC 20.3: D 20.3. Dec. 1924 to date Cons. Engr., Federal Asphalt Paving Co. TT 2.2: P 2.2. TT 31.4: SP 5: P 26.4: RC 20.3: D 20.3. Refers to W. S. Conklin, W. H. Dittoe, C. H. Elffert, J. W. Hill, J. H. Kimball, H. S. Marshall, J. W. Moore, F. K. Vaughn.

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(11) WEBB, ALBERT ARTHUR, 1523 Tonawanda St., Los Angeles, Cal. (Age 28. Born Forest Grove, Ore.) 1922 B. S. in Civ. Eng., Iowa State Coll. TT 2: SP 2. Summers 1915 and 1917 Rodman and Chainman, and summer 1918 Levelman and Rodman, Buena Vista County, at Storm Lake, Iowa, on road and drainage work. Summer 1920 Party Chf., Draftsman and Transitman with John Wilson, Cons. Engr., Duluth, Minn., on surveying, subdivisions, drafting for sewer layout and disposal plant, computations, estimates, etc. Summer 1921 Party Chf., Douglas County Highway Comm., Superior, Wis., on construction, location and drainage, entire charge of field party on drainage, clearing of right-of-way, cross-sectioning, etc., later (few weeks) on location of 6 miles of new road. Summer 1922 Field Draftsman, California State Highway Comm., Los Angeles, Cal., making contour maps of rough country and assisting in location of final line, computing quantities and assisting in deciding routes, etc. TT 0.3: P 0.3. Jan. to April 1923 Party Chf., Richardson Constr. Co., Esperanza, Sonora, Mexico, on land surveying, some canal location, land subdivision involving observations. TT 0.3: P 0.3: RC 0.3. May to Sept. 1923 Asst. Field Supt., Des Moines (Iowa) Steel Co., on bridge and culvert construction, ordered material, laid out work and supervised generally. TT 0.3: P 0.3: RC 0.3. Sept. 1923 to April 1925 Asst. to Res. Engr., Phoenix Utility Co. and (later) Minnesota Power & Light Co., Duluth, Minn., on large hydro-electric installation, took care of all office work and layout and engineering work of dam; form design and design checking on plans; later made preliminary investigations and collected data for proposed hydro plant, also acted as Res. Engr. on large substation and repair work on a dam. TT 1.7: P 1.7: RC 1.3: D 0.2. May to Aug. 1925 Draftsman, Southern California Edison Co., Los Angeles. TT 0.2: P 0.2. Aug. 1925 to Dec. 1926 Vice-Pres. and Factory Supt., Western Carbon Paper Mfg. Co., Los Angeles, manufacturing of carbon paper and typewriter ribbons; installed machinery, redesigned carbon coater, cost analysis, etc. TT 1.3: P 1.3: RC 1.3: D 0.2. Dec. 1926 to date Jun. Civ. Engr., City of Los Angeles. TT 0.2: P 0.2. TT 6.4: SP 2: P 4.4: RC 3.2: D 0.4. Refers to J. Carson, A. C. Giesecke, W. C. Hogoboom, R. M. Palmer, L. M. Pharis.

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(5) WHEELER, MILLARD FRANKLIN, 1623 East Thirtieth St., Baltimore, Md. (Age 23. Born Baltimore, Md.) 1926 B. E., Johns Hopkins Univ. TT 2: SP 2. June 1926 to Jan. 1927 Bridge Draftsman, Maryland State Roads Comm., on plans and tracings. TT 0.5: SP 0.5. TT 2.5: SP 2.5. Refers to W. T. Ballard, T. F. Comber, Jr., J. H. Gregory, J. T. Thompson.

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(4) WISTRICH, HARRY ARNOLD, 1126 Main St., Bethlehem, Pa. (Age 31. Born New York City.) 1918 C. E., Cornell Univ. TT 2: SP 2. June to Sept. 1918 Transitman, Thompson-Starrett Constr. Co., at Nitro, W. Va. TT 0.3: SP 0.3. Sept. 1918 to April 1921 with Lehigh Valley R. R. Co. until Aug. 1919 as Transitman, then Draftsman, tracing and detailing. TT 2.6: SP 2.6. April to Sept. 1921 Chf. Inspector, Pennsylvania State Highway Dept., under Dist. Engr., Allentown, Pa. TT 0.5: P 0.5: RC 0.5. Sept. 1921 to April 1926 Draftsman and April 1926 to date Bridge Designer, L. V. R. R. detailing, later on plans and estimates and finally on designs and estimates including detailed plans for construction of

timber, reinforced concrete and structural steel highway and railway bridges. *TT 5.3: SP 1.3: P 4: RC 2: D 2. TT 10.7: SP 6.2: P 4.5: RC 2.5: D 2.* Refers to F. W. Gilcreast, G. T. Hand, H. T. Rights, F. E. Schall, F. C. Stehle, G. B. Woodruff.

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(10) **WOODS, EDWIN MARECHAL**, 1508 Twenty-Third Ave., Meridian, Miss. (Age 25. Born Mobile, Ala.) 1927 B. S. in Civ. Eng., Univ. of Ala. *TT 2: SP 2.* Summer 1923 Foreman in charge of concrete work, with S. H. Hinckley, Contr., Tuscaloosa, Ala. Sept. 1925 to June 1926 Transitman, State Highway Dept. of Alabama, on surveys, levels, cross-sections, topography, etc., and also made several short locations. *TT 0.7: SP 0.7. TT 2.7: SP 2.7.* Refers to G. J. Davis, Jr., S. C. Houser.

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(1) **WREDE, FREDERICK WILLIAM**, 834 Hudson St., Hoboken, N. J. (Age 29. Born Hoboken, N. J.) 1920 to 1924 student, School of Civ. Eng., Cornell Univ. *TT 1.3: SP 1.3.* Jan. 1926 to Jan. 1927 Asst. Res. Engr. with Gavin Hadden, New York City. *TT 1: SP 1. TT 2.3: SP 2.3.* Refers to G. F. Baker, F. A. Barnes, G. Hadden, C. A. Holden, J. E. Perry, C. H. Schwertner.

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(5) **YANCEY, HENRY ALEXANDER**, City Hall, Charlottesville, Va. (Age 31. Born Waynesboro, Va.) Certified Prof. Engr., State of Va. 1915 to 1917 and Sept. 1919 to Jan. 1920 student in Eng., Virginia Military Inst. *TT 0.7: SP 0.7.* June 1917 to Jan. 1918 Rodman and Draftsman, State Highway Comm., Raleigh County, W. Va. *TT 0.5: SP 0.5.* Jan. 1918 to Sept. 1919 Commissioned Officer, A. E. F., U. S. Army. Sept. 1920 to Sept. 1922 Inspector, Instrumentman and Project Engr., Virginia State Highway Comm., at Lynchburg, Danville and Norfolk, Va. *TT 2: SP 0.3: P 1.7: RC 1.7.* Sept. 1922 to Sept. 1925 City Engr. and Sept. 1925 to date City Mgr., Charlottesville, Va. *TT 4.4: P 4.4: RC 4.4: D 4.4. TT 7.6: SP 1.5: P 6.1: RC 6.1: D 4.4.* Refers to B. A. Bennett, S. Burnley, J. C. Carpenter, W. F. Day, W. W. C. Perkins, L. H. Williamson.

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(15) **YOUNG, PHILLIP GAFFNEY**, 915 Buffalo, Corpus Christi, Tex. (Age 23. Born Marshall, Tex.) Feb. 1924-Dec. 1925 Rodman, City of Corpus Christi, Tex. *TT 0.9: SP 0.9.* Jan. to May 1925 Draftsman with Theo. Koester, San Antonio, Tex. *TT 0.3: SP 0.3.* May 1925 to date Instrumentman and Chf. of Party with John B. Hawley. *TT 0.8: SP 0.8. TT 2: SP 2.* Refers to S. W. Freese, L. B. Griffith, J. B. Hawley, R. Owen, H. N. Roberts, Jr.

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(14) **ZEITZ, ARTHUR HAMPTON**, 5119 Wyandotte St., Kansas City, Mo. (Age 31. Born Jefferson City, Mo.) 1920 B. S. in Civ. Eng., Univ. of Mo. *TT 2: SP 2.* Aug. 1917 to Aug. 1919 in Engr. Corps, U. S. Army, 8 months as Sergeant, 110th Engrs. and Engr. Reserve Officers' Training Camp, 3 months 2nd Lieut. of Engrs., and remainder of time First Lieut., Co. A, 531st Engrs., on mill construction and operation and road construction in France. *TT 2: SP 0.7: P 1.3: RC 1.3.* May 1920 to May 1925 Draftsman and May 1925 to date Chf. Draftsman in charge of office, Water Dept., Kansas City, Mo., on operation, maintenance, extensions and betterments to distribution systems and pumping stations; design of a 36-in. feeder line, through plate girder bridge carrying 36-in. line over Terminal Ry. Tracks; reinforced concrete flat slab covers for Holly St., Northeast and Turkey Creek Reservoirs; booster station to serve southwest part of city in conjunction with standpipe; concrete submerged coal storage basin, and concrete flume and submerged ash pit at Turkey Creek Station; computation and compilation of data and laying out feeder main extensions; layout and specifications for 42-in. steel feeder line out of Turkey Creek station and for pulverized coal installation, (9 to 10 boilers), same Station; design and specifications for pipe-line tunnel under railway tracks and up bluff from Turkey Creek station into distribution system, and for overhead steel coal bunker, etc. *TT 6.7: SP 2.5: P 4.2: RC 1.7: D 4.2. TT 10.7: SP 5.2: P 5.5: RC 3: D 4.2.* Refers to C. S. Foreman, H. R. F. Helland, B. B. Hodgman, W. Kiersted, G. W. McClelland, T. D. Samuel, Jr., R. W. Waddell.

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(1) **ZWERIN, SAMUEL JACOB**, 1962 Sixty-Fourth St., Brooklyn, N. Y. (Age 31. Born Slavgorod, Russia.) 1921 B. S. in C. E., N. Y. Univ. *TT 2: SP 2.* June 1920 to Feb. 1923 (evenings) Instructor in Mathematics and Surveying, Russian Tech. Inst., New York City. Feb. 1923 to July 1926 with Truscon Steel Co., until April 1924 as Detailer and Designer of reinforced concrete buildings, at Youngstown, Ohio, involving making of design and detail drawings from architectural plans; then Concrete Engr., at New York City, detailing, checking designing and estimating reinforced concrete buildings; after Dec. 1924 in charge. *TT 3.5: P 3.5: RC 1.7.* July to Sept. 1926 estimating reinforced concrete work for Friedman & Cohen (Estimating Bureau), New York City, taking off reinforcing steel and accessories from structural drawings. *TT 0.2: P 0.2.* Sept. 1926 to date Engr., Corson Constr. Corpo-

ration, making working drawings of reinforced concrete, construction plant layout, etc. *TT 0.5: P 0.5. TT 6.2: SP 2: P 4.2: RC 1.7.* Refers to H. M. Braloff, W. B. Grigaby, A. Haring, N. H. Jebejian, J. Meltzer, G. Paaswell, C. T. Schwarze, R. D. Snodgrass, N. H. Sturdy, V. V. Tchikoff.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

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(13) **BAKER, NED DUNCAN**, Assoc. M., 5578 Lawton Ave., Oakland, Cal. (Elected Junior Dec. 6, 1910; Assoc. M. Dec. 6, 1915.) (Age 42. Born Paris, Mo.) 1909 B. S., Univ. of Cal. *TT 2: SP 2.* Oct. 1909 to April 1911 Engr. Inspector, California State Board of Health. *TT 1.5: P 1.5.* July 1911 to Dec. 1914 Asst. Engr. with Haviland & Tibbetts, San Francisco, Cal., being Res. Engr. on construction, Lindsay (Cal.) sewer system; on design and Res. Engr. on construction, Santa Maria (Cal.) sewers; in charge of design, Stege San. Dist., Etna and South San Francisco sewers and of Knights Landing outfall gates; Chf. Asst. Engr. on Richmond (Cal.) Water Report 1913; flood-control, drainage, etc., including 6 months as Chf. Asst. to Deputy Surveyor, Alameda County. *TT 3.4: P 3.4: RC 2.5: D 2.* 1915 and 1916 Prof. of Structural Eng., Pei-Yang Univ., Tientsin, China. *TT 2: P 2: RC 2: D 2.* June 1917 to June 1918 with Bethlehem Shipbuilding Corporation; designed and supervised construction of drainage and sewer system for Alameda (Cal.) Yard, main sewers on reinforced concrete beams on piles. *TT 1: P 1: RC 1: D 0.5.* July 1918 to Dec. 1923 Chf. Asst. Engr. and Office Mgr., with Fred H. Tibbetts, Civ. Engr., San Francisco, on flood control, drainage, irrigation, runoff studies, reclamation district assessments, water-supply, sewage-disposal and harbor work, including construction of levees, drains, pumping plants, irrigation canals and structures, etc., on Sacramento River West Side Levee Dist., Reclamation Dists. No. 108 and No. 2035, Nevada and Glenn Colusa Irrigation Dists. and numerous smaller projects. *TT 5.5: P 5.5: RC 5.5: D 5.5.* Feb. 1924 to date on Estuary Subway, Alameda County, vehicular subaqueous tube (cost \$4 500 000), 1 year as Chf. Draftsman on designs and contract plans, and remainder of time Office Engr. during construction. *TT 3: P 3: RC 3: D 3. TT 18.4: SP 2: P 16.4: RC 14: D 13.* Refers to C. Derleth, Jr., A. W. Earl, H. L. Haehl, E. Hyatt, Jr., C. G. Hyde, G. A. Posey, P. Schuyler, F. H. Tibbetts, H. C. Vensano.

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(1) **COLLINS, HORATIO JOHN**, Assoc. M., Eng. Dept., Univ. Coll., Univ. of London, Gower St., London, W. C. 1, England. (Elected May 28, 1923.) (Age 32. Born Swellendam, Cape Colony, South Africa.) B. Sc. in Civ. Eng., 1919, and M. S., Univ. of Birmingham. *TT 2: SP 2.* Sept. 1914 to April 1919 Capt., British Army. *TT 4.6: SP 4.6.* April 1919 to June 1920 Govt. Industrial Research Asst. on rigid frames, heat treatment of alloys, etc. *TT 1.2: P 1.2: RC 1: D 0.2.* June 1920 to Jan. 1922 Asst. Engr. to E. G. Walker, Civ. Engr., Westminster, England, on layout, design, etc. *TT 1.6: P 1.6: RC 0.8: D 0.8.* Jan. to Nov. 1922 Chf. Asst. to F. C. Lea, Cons. Engr., on structures and general engineering. *TT 0.9: P 0.9: RC 0.9.* Nov. 1922 to Aug. 1923 Asst. Engr. and Designer with Simon-Carves, Ltd., Manchester, England. *TT 0.7: P 0.7: D 0.7.* Nov. 1923 to date Senior Lecturer in Civ. and Mech. Eng., Univ. Coll., Univ. of London, England; also in private practice as Civ. Engr., steel and concrete structures, etc. *TT 3.5: P 3.5: RC 3.5. TT 14.5: SP 6.6: T 7.9: RC 6.2: D 1.7.* Refers to J. Husband, J. M. Moncrieff, R. E. Stradling, E. G. Walker. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(1) **COLLINS, THOMAS EDWARD**, Assoc. M., City Hall, Elizabeth, N. J. (Elected June 6, 1911.) (Age 44. Born Mauch Chunk, Pa.) Two years student, U. S. Naval Acad., Annapolis, Md. Post-graduate course in Highway Eng., Columbia Coll., New York City. Aug. 1902 to Jan. 1903 Inspector, Bridge Dept., Illinois Central R. R. *TT 0.5: SP 0.5.* Jan. 1903 to Jan. 1906 Rodman and Leveler and Jan. 1906 to May 1907 Transitman in charge of field work on three miles of construction, Pennsylvania R. R. Co. *TT 4.3: SP 0.8: P 3.5: RC 1.3.* May to Sept. 1907 Asst. Engr. on valuation, New York, New Haven & Hartford R. R. *TT 0.3: P 0.3: RC 0.3.* Sept. 1907 to July 1910 Chf. of Party on construction, Sunnyside Yard, Pennsylvania Tunnel & Terminal R. R. Co. *TT 2.8: P 2.8: RC 2.8.* July 1910 to Jan. 1912 Asst. Engr. on railroad and canal revaluation for State of New Jersey. *TT 1.5: P 1.5: RC 1.5.* Jan. 1912 to date City Engr., Elizabeth, N. J., in actual charge and design of all streets, sewers and dock construction. *TT 15.2: P 15.2: RC 15.2: D 15.2. TT 24.6: SP 1.3: P 23.3: RC 21.1: D 15.2.* Refers to J. H. Fuertes, W. E. Fuller, C. Hansel, D. H. Maury, C. D. Pollock, A. H. Pratt, L. A. Robb.

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(7) FISHER, MARTIN RANKIN, Assoc. M., 107 City Hall, Detroit, Mich. (Elected Jan. 19, 1925.) (Age 42. Born Inkster, Mich.) Registered Civ. Engr., State of Michigan. 1906 B. S. in C. E., Univ. of Mich. TT 2: SP 2. June to Nov. 1906 Asst. Engr., Riggs & Sherman Co., Toledo, Ohio, being Field Engr. in charge of construction of sewers and pavements at Van Buren, Ind. TT 0.4: P 0.4. Nov. 1906 to Jan. 1907 Instrumentman, Detroit River Tunnel Co., Detroit, Mich. TT 0.2: SP 0.2. Jan. 1907 to May 1909 Draftsman, Bridge Engr.'s office, Pere Marquette R. R., Detroit. TT 2.3: SP 2.3. May 1909 to Jan. 1911 Asst. Engr., Oregon & Washington R. R. Co., Seattle, Wash., in Bridge Dept., on design of railroad bridges and reinforced concrete and steel bridges, retaining walls, etc., for Harriman Ry. Terminal at Seattle, some responsibility for design. TT 1.7: P 1.7: D 1.7. Jan. 1911 to Aug. 1918 with City Engr.'s office, Detroit, as Draftsman, Instrumentman, and (after Jan. 1916) Chf. of field party. TT 7.6: SP 5: P 2.6: RC 2.6. Aug. 1918 to Feb. 1919 Asst. Engr., Hull Fabrication Dept., A. I. S. C., Hog Island, Pa., being Asst. Chf. of Inspection Div. on inspection of fabrication of structural steel in hulls of ships. TT 0.5: P 0.5: RC 0.5. Feb. 1919 to date with City of Detroit, until Jan. 1926 as Engr. in Chg., Survey Div., City Engr.'s office, since then Asst. City Engr., being Gen. Asst. to City Engr., on design, plans, specifications and survey work for city pavements, sewers, grade separations and bridges. TT 7.9: P 7.9: RC 7.9. TT 22.6: SP 9.9: P 12.7: RC 11: D 1.7. Refers to P. A. Fellows, G. H. Fenkell, C. W. Hubbell, S. Murray, J. W. Reid, W. D. Shannon, J. Tuthill.

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(11) FLOYD, RICHARD ARCHIBALD, Assoc. M., 4531 Maryland Ave., San Diego, Cal. (Elected March 15, 1926.) (Age 35. Born Cornwall, England.) April 1909 to Dec. 1911 Chainman, Rodman and Leveler, and June 1913 to Feb. 1915 Instrumentman, Chicago, Milwaukee & St. Paul Ry. TT 4.4: SP 2.7: P 1.7: RC 1: D 1. Dec. 1911 to June 1913 Location Engr. and Res. Engr., Alberta Interurban Ry., Calgary, Alberta, Canada, location and construction. TT 1.5: SP 0.6: P 0.9: RC 0.9: D 1.5. Feb. 1915 to Jan. 1918 Asst. Engr., W. A. Clark Min. & Mining Co., Butte, Mont., mining, geological and litigation work TT 2.9: P 2.9: RC 2.9: D 2.9. Jan. 1918 to Jan. 1919 Asst. Engr., City of Butte, Mont. TT 1: P 1: RC 1: D 1. Jan. 1919 to May 1922 Chf. Engr., Montana Southern Ry. and Boston & Montana Milling & Power Co., Wise River, Mont., railroad construction and maintenance, mill and power-line construction, mining engineering. 1918 to 1922 also U. S. Mineral Surveyor for Montana. TT 3.3: P 3.3: RC 3.3: D 3.3. May to Dec. 1922 member of firm, Strasburger Eng. Co., Butte, engineering, construction, civil and mining examination and reports. TT 0.7: P 0.7: RC 0.7: D 0.7. Jan. 1923 to April 1925 with San Diego Elec. Ry. Co., until April 1924 as Engr. of Constr., on interurban location and construction and reconstruction of city lines, after April 1924 Supt., Way and Structures. TT 2.3: P 2.3: RC 2.3: D 2.3. April 1925 to date Chf. Engr. The Southlands Corporation, San Diego, engineering and construction, dredging, well drilling, sanitation, street improvements and utilities. TT 2: P 2: RC 2: D 2. TT 18.1: SP 3.3: P 14.8: RC 14.1: D 14.7. Refers to W. H. Code, L. C. Hill, H. W. Jorgensen, C. A. W. Musson, J. H. Quinton.

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(4) HARTWELL, OLIVER WHITCOMB, Assoc. M., State House, Trenton, N. J. (Elected Feb. 4, 1914.) (Age 40. Born Somerville, Mass.) 1908 A. B., Harvard Univ. TT 2: SP 2. June to Sept. 1906 Instructor in surveying, Harvard Eng. Camp. June to Sept. 1907 Transitman, Boston Elevated Ry. June 1908 to Aug. 1909 Asst., Eng. Dept., Massachusetts State Board of Health, examinations of stream pollution, sewage-disposal plants, of several rivers and of Lawrence sewers (1909). TT 1.1: P 1.1. Sept. 1909 to date with U. S. Geological Survey, Water Resources Branch, as Jun. Engr. and Asst. Engr., until Oct. 1911 in charge of field work in Idaho (under direction of Dist. Engr.) on maintenance of stations, and made reconnaissance, selected site and directed installation of equipment at about 25 new stream-gauging stations; then connected with investigation into effect of forestation on run-off, part of time as Prin. Asst. to Engr. in charge, having charge of office at North Woodstock, N. H.; July 1912 to Oct. 1919 Office Engr., Dist. Office, Albany, N. Y., in charge of office work (under direction of Dist. Engr.) and at times acted for Dist. Engr.; has had charge of preparation of stream-flow data, design of structures for gauging stations and preparation of water supply papers; Nov. 1919 to June 1921 Dist. Engr., Harrisburg, Pa., in charge of all stream gauging work in Pennsylvania co-operating with State Water Supply Comm.; since July 1921 Dist. Engr., Trenton, N. J., co-operating with State Dept. of Conservation and Development, organized stream gauging work in State, including selection of stations, design and construction of equipment, maintenance of stations and preparation of reports. TT 17.5: P 17.5: RC 7.5: D 2. TT 20.6: SP 2: P 18.6: RC 7.5: D 2. Refers to J. N. Brooks, C. C. Covert, H. T. Critchlow, L. Focht, N. C. Grover, J. C. Hoyt, C. H. Pierce.

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(15) MERRILL, BERGEN STELLE, Assoc. M., 7509 Jeannette St., New Orleans, La. (Elected Oct. 14, 1919.) (Age 40. Born Stelton, N. J.) 1908 B. Sc., and 1913 C. E., Rutgers Coll. TT 2: SP 2. March 1909 to Sept. 1910 Draftsman, until Feb. 1910 with Post & McCord, New York City, then with Lackawanna Bridge Co., Buffalo, N. Y., detailing structural steel shop drawings for buildings and bridges. TT 1.5: SP 1.5. Sept. 1910 to Jan. 1912 Asst. Engr., Geo. Kellogg Structural Co., Buffalo, detailing, checking and designing structural steel for buildings, bridges, etc. TT 1.3: SP 1: P 0.3. Jan. 1912 to Jan. 1913 Asst. Structural Engr., with Eisenwein & Johnson, Archts., Buffalo, drafting, checking and designing structural steel and reinforced concrete for buildings, including several large hotels and schools. TT 1: SP 0.3: P 0.7. Jan. 1913 to Sept. 1917 Engr., Hoggson Bros., New York City, being Asst. Mgr., Architectural Dept., preparing and checking plans, specifications and details for buildings (1½ years), Mgr., Eng. Dept., checking and co-ordinating construction work with plans and specifications (2 years), and Supt. on construction of bank building and alteration (1½ years). TT 4.7: RC 2.5. Sept. 1917 to May 1918 Structural Engr. with Fred T. Ley, Springfield, Mass., designing, drafting and checking steel, concrete and timber for plants. TT 0.7: P 0.7. May 1918 to Jan. 1919 with Field Artillery, U. S. Army. March 1919 to Jan. 1927 Chf. Engr., Favrot & Livaudais, Ltd., Archts., New Orleans, La., engineering design and supervision on office, hotel and industrial buildings and alterations. TT 7.8: P 7.8: RC 7.8: D 3.8. TT 19.1: SP 4.8: P 14.3: RC 10.8: D 3.8. Refers to J. W. Billingsley, C. G. Cappel, P. D. Cook, D. Derickson, F. A. Muth, J. Riess, S. M. Young.

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(15) NAGLE, JOHN MARION, Assoc. M., Wharton, Tex. (Elected Jan. 19, 1920.) (Age 35. Born Manor, Tex.) 1911 B. S. in Civ. Eng., Tex. Agri. and Mech. Coll. TT 2: SP 2. July 1911 to Jan. 1914 Draftsman with Wichita Falls & Northwestern Ry. Co. and (after June 1912) Southern Eng. Constr. Co., Dallas, Tex., on electric railway construction. TT 2.5: SP 2.5. Jan. to Aug. 1914 Res. Engr., Stone & Webster Eng. Corporation, on electric railway location. TT 0.6: P 0.6: RC 0.6. Sept. 1914 to April 1915 Surveyman, U. S. Reclamation Service, on construction of Elephant Butte Dam. TT 0.7: P 0.7: RC 0.7. May to Aug. 1915 Draftsman with Bartlett & Ranney, Cons. Engr., San Antonio, Tex. on highway construction. TT 0.3: SP 0.3. Aug. 1915 to July 1916, March to Sept. 1918 and Dec. 1918 to June 1919 Asst. Engr. under County Engr., on highway construction, successively in Collins, Dickens, and Baylor Counties, Tex. TT 1.9: P 1.9: RC 1.9: D 1.9. Aug. 1916 to May 1917 Draftsman, Gulf, Colorado & Santa Fe Ry., on valuation. TT 0.8: P 0.8. May 1917 to March 1918 Res. Engr. with Petersen & Marshall, Cons. Engrs., Texarkana, Ark., on highway construction in St. Francis County, Ark. TT 0.8: P 0.8: RC 0.8: D 0.8. Sept. to Dec. 1918 Chf. Instructor, surveying and topographic drawing, S. A. T. C., Agricultural and Mechanical Coll. of Texas. TT 0.3: P 0.3: RC 0.3. June 1919 to March 1921 member of firm, Cook & Nagle, Highway Engrs., Cooper, Tex., on highway construction in Baylor and Delta Counties, Tex. TT 1.7: P 1.7: RC 1.7: D 1.7. March 1921 to June 1925 member of firm, Thompson & Nagle, Highway Bridge Contrs., on highway bridge construction in Texas. TT 4.2: P 4.2: RC 4.2. June 1925 to date Res. Engr. with Nagle, Witt, Rollins Eng. Co., Dallas, Tex., on paving and storm sewer construction in Port Arthur, Tex., and (after July 1926) on highway construction in Wharton County, Tex. TT 1.7: P 1.7: RC 1.7: D 1.7. TT 17.5: SP 4.8: P 12.7: RC 11.9: D 6.1. Refers to J. Mead, E. F. Petersen, A. P. Rollins, G. G. Wickline, J. F. Witt.

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(2) NORTON, PAUL WILLARD, Assoc. M., 491 Boylston St., Boston, Mass. (Elected May 13, 1918.) (Age 43. Born Amboy, Ill.) 1905 A. B., Amherst Coll. 1908 S. B., Mass. Inst. Tech. TT 2: SP 2. July 1908 to Feb. 1910 Asst. Structural Engr. for Shepley, Rutan & Coolidge, Archts., Boston, Mass., designing structural features of buildings, chiefly steel-frame construction. TT 1.7: P 1.7: D 1.7. March 1910 to Nov. 1912 Draftsman, Phoenix Bridge Co., Phoenixville, Pa., detailing steel railroad bridges. TT 2.7: SP 2.7. Nov. 1912 to Feb. 1913 Asst. Structural Engr. for John R. Freeman, Providence, R. I., research, design, cost-analysis in connection with preliminary plans for Massachusetts Inst. of Technology Plant. TT 0.3: P 0.3: D 0.3. March 1913 to date Architectural Engr. for Maginnis & Walsh, Archts., Boston, in full charge of structural design, including churches, educational and institutional plants, hospitals, municipal buildings (cost \$200 000 to \$5 000 000); also since Oct. 1917 (part of time) instructor in Architectural Eng., Massachusetts Inst. of Technology; 1918-1924 on consulting work for architects in Boston, responsible for structural design of city hotel (\$800 000), apartment hotel, school building (\$200 000) (all fire-proof), and industrial building (slab slab \$125 000), and 1923 and 1924 associated with R. H. Hannaford as Hannaford & Norton, Archts. for public school building, Wellesley, Mass.

(\$100 000) and other buildings. *TT 13.9: P 13.9: RC 13.9: D 13.9. TT 20.6: SP 4.7: P 15.9: RC 13.9: D 15.9.* Refers to L. A. Estes, C. W. Killam, L. E. Moore, E. E. Pettee, E. A. Tucker, J. R. Worcester.

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(9) **PIERSOL, JOHN ALLISON**, Assoc. M., 2459 Ashland Ave., Indianapolis, Ind. (Elected June 16, 1924.) (Age 33. Born Belle Vernon, Pa.) 1917 C. E., Cornell Univ. *TT 2: SP 2.* Aug. 1917 to June 1919 2d Lieut., Battery A, 310th Field Artillery, U. S. Army, in United States and France. *TT 1.8: SP 1.8.* Aug. 1919 to March 1921 Sub. Instrumentman and Jun. Asst. Engr., San. Dist. of Chicago, drafting and design. *TT 1.5: SP 1.2: P 0.3: D 0.3.* March 1921 to July 1925 Asst. Engr. and Res. Engr., San. Dist. of Indianapolis, design and supervision of construction. *TT 4.4: P 4.4: RC 3.9: D 0.5.* July 1925 to Feb. 1927 Res. Engr., Marott Spink Hotel Co. of Indianapolis, supervision of construction. *TT 1.6: P 1.6: RC 1.6. TT 11.3: SP 5: P 6.3: RC 5.5: D 0.8.* Refers to F. A. Barnes, O. L. Eltinge, J. E. Hall, C. H. Hurd, H. S. Jacoby, I. P. Kane, L. Pearse, L. C. Whittemore.

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(13) **PRACY, GEORGE WESLEY**, Assoc. M., 425 Mason St., San Francisco, Cal. (Elected Nov. 4, 1914.) (Age 40. Born San Francisco, Cal.) 1908 B. S., Coll. of Mechanics, Univ. of Cal. May to July 1908 on field work for construction of steel tower line, Great Western Power Co. *TT 0.2: SP 0.2.* Jan. to July 1909 Instructor of mathematics and physics, Cogswell Polytechnic Coll., San Francisco, Cal. *TT 0.5: SP 0.5.* Sept. 1909 to July 1911 on field and office work for operation and construction, Spring Valley Water Co. *TT 1.8: P 1.8.* July 1911 to Jan. 1912 with Chas. C. Moore & Co., drafting and general design of steam power plants. *TT 0.5: P 0.5: D 0.5.* Jan. 1912 to date with Spring Valley Water Co., San Francisco, until Sept. 1918 as Asst. Engr. in charge of design and erection of two electrically-operated pumping stations (22 000 000 and 40 000 000 gal.), general work in connection with development of water of city; Sept. 1913 to Nov. 1914 Asst. Supt., in general charge, and since Nov. 1914 Supt., in responsible charge, of operation, maintenance and construction of City Distributing System, with steam pumping stations and 700 miles of distributing mains, etc. *TT 15.2: P 15.2: RC 12.2: D 6.8. TT 18.1: SP 0.7: P 17.4: RC 12.2: D 7.3.* Refers to G. A. M. Elliott, T. W. Espy, F. C. Herrmann, W. L. Huber, H. C. Vensano.

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(10) **THEROUX, FRANK RICHARD**, Assoc. M., Sewage Disposal Div., Miami, Fla. (Elected Dec. 4, 1922.) (Age 36. Born New Haven, Conn.) 1915 C. E., Valparaiso Univ. 1924 M. C. E., Cornell Univ. *TT 2: SP 2.* Jan. 1910 to Dec. 1911 with Arizona & Swanson R. R. and Clara Consolidated Gold & Copper Min. Co., as Surveying Asst. Surveying Chf. of party and (about 11 months) Chf. Engr. in charge of construction. *TT 1.9: SP 1.9.* Jan. to March 1912 Chf. of survey party, American Smelting & Refining Co., Hayden, Ariz. *TT 0.2: SP 0.2.* March to Sept. 1912 Draftsman, Auto Club of Southern California. *TT 0.5: SP 0.5.* 1914-1915 (while student) Asst. Instructor in surveying, Valparaiso Univ. Sept. to Dec. 1915 Chf. of field work on 50 000-acre topographical survey, Great Falls (S. C.) Land Co. *TT 0.2: P 0.2: RC 0.2.* Jan. to April 1916 Draftsman, Mobile & Ohio R. R. *TT 0.2: SP 0.2.* June to Sept. 1916 Asst. Engr., Smythe Constr. Co., in charge of track layout and design. *TT 0.2: P 0.2: RC 0.2.* Sept. 1916 to June 1917 Prof. of Science and Civ. Eng. Little Rock (Ark.) Coll. *TT 0.7: SP 0.7.* Sept. to Nov. 1917 Structural Draftsman, Whitehead & Kales Iron Works, Detroit, Mich. *TT 0.2: SP 0.2.* June to Sept. 1917 Prof. in charge of Civ. Eng. Dept. and Nov. 1917 to Aug. 1922 Prof. of Civ. Eng. in charge of Engr. School, Valparaiso Univ., after Nov. 1917 also in private practice on surveys, drainage and design of structures. *TT 4.9: P 4.9: RC 4.9.* Sept. 1922 to June 1924 Graduate Student and Instructor in C. E. School, Cornell Univ. *TT 1.5: P 1.5.* July to Oct. 1923 Res. Engr., City Westes Disposal Co. of New York City, in charge of sanitary studies of sewage disposal and bay pollution at East Providence, R. I. *TT 0.2: P 0.2: RC 0.2.* July to Dec. 1924 Asst. Sanitarian, Div. of Sanitation, New York State Dept. of Health, on sanitary investigation and reports on nuisances, public water supplies and sewage-treatment works. *TT 0.4: P 0.4: RC 0.4.* Dec 1924 to June 1926 Sewer Engr., City of Lakeland, Fla., in charge of design and construction of sewer and sewage disposal plant (\$1 500 000). *TT 1.6: P 1.6: D 1.6.* June 1926 to date San. Engr., City of Miami, Fla., in charge of design and general investigation of future sewage-treatment needs; at present building experimental plant. *TT 0.7: P 0.7: D 0.7. TT 15.8: SP 5.9: P 9.9: RC 6.2: D 2.5.* Refers to F. A. Barnes, E. B. Besselleve, C. C. Brown, C. S. Nichols, C. L. Walker.

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(11) **WATSON, PAUL ROBERT**, Assoc. M., 2835 C St., San Diego, Cal. (Elected Nov. 4, 1914.) (Age 42. Born Boston, Mass.) 1905 to 1908 Student in Civ. Eng., Leland Stanford, Jr., Univ. *TT 1: SP 1.* 1904 to 1905 Instrumentman and Chainman with Porter P. Wheaton,

Civ. Engr. and Deputy Mineral Surveyor. *TT 1: SP 1.* May to Aug. 1906 Instrumentman, Eng. Dept., Home Telephone Co. of San Diego. May to Aug. 1907 with County Engr. of San Diego County on general field and office work. 1908 to 1920 Chf. Deputy, County Surveyor's Office, San Diego County, in charge of road location and construction, also Acting Bridge Engr. in full charge of design and construction. *TT 12: P 12: RC 10: D 6.* 1920 to 1922 Asst. Highway Engr., San Diego County Highway Comm., on concrete roads. *TT 2: P 2: RC 2: D 1.* 1922 to 1923 Engr. and Supt. for H. H. Peterson, Road Contr., in charge of construction of paving, etc., and estimating. *TT 1: P 1: RC 1.* 1923 to 1924 in private practice, estimating and designing structures and municipal work. *TT 1: P 1: RC 1: D 1.* 1924 to date Chf. Engr. with Watson, Valle & Gough, Inc., Civ. Engrs., in charge of design and plans for municipal and other improvements (\$3 500 000). *TT 2: P 2: RC 2: D 2.* *TT 20: SP 2: P 18: RC 16: D 10.* Refers to J. R. Comly, G. Cromwell, T. H. King, T. A. Mills R. M. Morton, C. E. Smith.

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(10) WILLIAMS, DANIEL MCGREGOR, Assoc. M., Care, William M. Platt, Durham, N. C. (Elected June 1, 1920.) (Age 37. Born Newton, N. C.) 1910 B. S. in E. E., Univ. of N. C. *TT 2: SP 2.* May to Dec. 1911 Operator in hydro-electric power plant, Southern Power Co. *TT 0.7: SP 0.7.* 1912 with North Carolina Elec. Power Co., as Operator in power plant, rewiring plant and 4 months Acting Chf. Engr. *TT 1: SP 0.1: P 0.9: RC 0.4.* Jan. 1913 to July 1917 Prin. Asst. to Chas. E. Waddell, Cons. Engr., Asheville, N. C., on design and construction of steam and hydro-electric power plants, dams, transmission lines, surveys, construction of streets, reports on steam and hydraulic developments, etc. *TT 4.6: P 4.6: RC 3.8: D 3.8.* July 1917 to May 1919 with Engr. Corps, U. S. Army, successively as Private, Sgt. (1st class) and Master Engr. (Jr. Grade); Nov. 1917 commissioned 2d Lieut. and Feb. 1919 1st Lieut.; May 1918 to April 1919 overseas. *TT 1.8: P 1.8: RC 1.4.* May 1919 to March 1923 with Chas. E. Waddell, testing turbines for industrial plants, design and construction of hydro-electric and steam power plants, municipal water supplies, etc. *TT 3.9: P 3.9: RC 3.9: D 3.9.* April 1923 to date with William M. Platt, Cons. Engr., Durham, N. C., on design and construction of impounding reservoir, dam, hydro-electric plant and pumping station, investigations and reports on municipal water supplies, power plants, etc., supervising construction of filtration plant. *TT 3.9: P 3.9: RC 3.9: D 3.6.* *TT 17.9: SP 2.8: P 15.1: RC 13.4: D 11.3.* Refers to G. M. Braune, W. Cain, J. B. Hutchings, Jr., F. Jones, W. M. Platt, J. H. Pratt, T. Saville, H. Tucker, C. E. Waddell.

FROM THE GRADE OF JUNIOR

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(1) DAVILA, JORGE VICTOR, Jun., Dept. of Health, San Juan, Porto Rico. (Elected Jan. 14, 1924.) (Age 27. Born Bayamon, Porto Rico.) 1921 B. S., Mass. Inst. Tech. *TT 2: SP 2.* July 1921 to Sept. 1923 with Isabela Irrigation Service, Dept. of Interior, Porto Rico, until May 1922 as Transitman, surveying, drafting, etc., then Asst. Engr., drafting and assisting in design of earth dam and appurtenant structures, etc., road location and surveying, stream flow investigations. *TT 2.1: P 2.1.* Sept. 1923 to June 1924 Asst. San. Engr. and June 1924 to date Eng. in Chg., Dept. of Health, Porto Rico, passing on plans of water-works, sewerage systems, and water and sewage-purification plants, inspecting municipal works; being Prin. Asst. to San. Engr. of Porto Rico; 4 months in charge of Bureau of San. Eng. *TT 3.4: P 3.4: RC 3.4.* *TT 7.5: SP 2: P 5.5: RC 3.4.* Refers to R. A. Gonzalez, F. Levy-Gonzalez, R. Ramirez, E. Totti y Torres, C. del Valle Zeno.

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(8) GASTON, LINDON STEVENS, Jun., 6048 Woodlawn Ave., Chicago, Ill. (Elected Jan. 15, 1923.) (Age 28. Born Columbus, Ind.) 1920 B. S. C. E., Purdue Univ. *TT 2: SP 2.* July to Sept. 1918 Transitman, Indianapolis Union Ry. Oct. 1918 to Jan. 1919 Draftsman, Cleveland, Cincinnati, Chicago & St. Louis Ry. *TT 0.2: SP 0.2.* June to Sept. 1919 Draftsman, Indiana State Highway Comm. *TT 0.2: SP 0.2.* June to Sept. of years 1920 and 1922 Detailer, American Bridge Co. *TT 0.5: P 0.5.* Sept. 1920 to Sept. 1923 Instructor in Civ. Eng., Purdue Univ. *TT 2.5: P 2.5.* June to Sept. 1921 Research Asst., Purdue Univ. Eng. Experiment Station, co-operative investigations for U. S. Bureau of Public Roads. *TT 0.2: P 0.2.* Sept. 1923 to Sept. 1924 Structural Designer with Holabird & Roche, Archts., on reinforced concrete and steel buildings. Sept. 1924 to date Archt.'s Supt., until July 1925 on buildings for Illinois Bell Telephone Co., and since then Asst. Supt. on Stevens Hotel, Chicago, Ill. *TT 3.5: P 3.5: RC 2.5: D 1.* *TT 9.1: SP 2.4: P 6.7: RC 2.5: D 1.* Refers to F. E. Brown, H. J. Burt, J. W. Kelly, W. A. Knapp, W. D. Pence, A. Smith.

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(1) GREENHALGH, SIDNEY FRANKLYN, Jun., 145 Maple Ave., Rahway, N. J. (Elected June 1, 1920.) (Age 29. Born Brooklyn, N. Y.) 1918 C. E., Rens. Pol. Inst. *TT 2: SP 2.*

May to July 1919 with Steel Equipment Corporation, Avenel, N. J., tracing and detailing parts and assembly drawings of steel office furniture and fireproof safes. *TT 0.2: SP 0.2.* July 1919 to June 1920 with James Stewart & Co., Inc., Gen. Contrs., New York City, tracing and detailing plans of reinforced-concrete factory buildings, steel mill buildings, crane runways, power houses and piers, designing steel and wood structures and checking estimates. *TT 1: SP 0.2: P 0.8: D 0.3.* June 1920 to date with New York & New Jersey Bridge and Tunnel Comm., New York City, successively as Rodman, Jun. Engr. and Asst. Engr., on triangulation, base-line measurements, topography, tunnel alignment in compressed air, location surveys, inspection drafting, computations and estimates on construction of Holland Tunnel acted as Chf.-of-Party in tunnel alignment and had charge of location on New York approaches and of computation of final estimates of two contracts. *TT 6.5: SP 0.5: P 6: RC 4: D 0.5.* *TT 9.8: SP 3: P 6.8: RC 4: D 0.8.* Refers to C. S. Gleim, A. H. Jorgensen, M. I. Killmer, T. R. Lawson, P. C. Ricketts, O. Singstad, F. A. Snyder.

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(4) LEONARD, SAMUEL JOHN, Jun., Drexel Inst., Philadelphia, Pa. (Elected Dec. 14, 1925.) (Age 31. Born Washington, D. C.) 1917 C. E., Cornell Univ. *TT 2: SP 2.* June to Sept. 1916 Draftsman, Pittsburg, Shawmut & Northern R. R. May to Sept. of years 1917 and 1919 with Raymond Concrete Pile Co., as Asst. on construction, docks and walls for Bethlehem Steel Co., at Sparrows Point, Md. (1917) and Asst. Supt. on pile work (1919). *TT 0.6: SP 0.6.* July 1918 to May 1919 Provisional First Lieut., Temporary Capt., Corps of Engrs., U. S. Army. *TT 0.7: SP 0.7.* Sept. 1919 to April 1920 Draftsman, B. F. Goodrich Co., Dept. of Bldg. Design, Akron, Ohio, designing minor alterations to buildings. *TT 0.6: SP 0.6.* Sept. 1923 to Oct. 1924 Inspector, Pennsylvania State Highway Dept., on concrete highway construction, in charge of projects. *TT 1.1: SP 1.1.* Oct. 1924 to Sept. 1925 Asst. Engr. of Tests, Dept. of Civ. Eng., Columbia Univ. Testing Laboratories. *TT 1: SP 0.5: P 0.5: RC 0.5.* Sept. 1925 to date Asst. Prof. of Civ. Eng., Drexel Inst., Philadelphia, Pa., in charge of courses in strength of materials and hydraulics. June to Sept. 1926 inspection and consultation on field work, Tech. Dept., Atlas Lumnite Cement Co. *TT 1.7: P 1.7: RC 1.7.* *TT 7.7: SP 5.5: P 2.2: RC 2.2.* Refers to F. A. Barnes, A. H. Beyer, H. L. Bowman, J. K. Finch, H. G. Harper, M. M. Upson, L. C. Urquhart.

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(10) LICHTER, JACOB, Jun., 101 Marietta St., Atlanta, Ga. (Elected Dec. 15, 1924.) (Age 29. Born New York City.) 1919 B. S., Mass. Inst. Tech. *TT 2: SP 2.* July 1914 to May 1917 with Pennsylvania Lines, Akron Div., successively as Trackman, Signal Repairman, and Asst. on Engr. Corps. *TT 2.8: SP 2.8.* May to Oct. 1917 Field Engr. and Constr. Inspector, Hunkin-Conkey Constr. Co., Cleveland, Ohio, on steel and reinforced concrete plant for Firestone Tire & Rubber Co., Akron. *TT 0.4: SP 0.4.* May to Sept. 1918 Aeronautical Mech. Engr., Bureau of Military Aeronautics, U. S. War Dept., in charge of design and detailing and supervised construction of special apparatus for instruction of aviators. *TT 0.4: SP 0.1: P 0.3: RC 0.3: D 0.3.* Jan. to March 1919 Asst. Instructor in Civ. Eng., Massachusetts Inst. of Technology. *TT 0.3: P 0.3.* April to July 1919 Structural Engr., Miller Rubber Co., Akron, designing, estimating and inspecting construction of additions and changes in buildings and equipment. *TT 0.3: P 0.3: D 0.2.* July 1919 to Feb. 1921 with B. F. Goodrich Co., Akron, until Feb. 1920 as Estimator and Planner of building changes and additions, then Asst. Supt. and later Supt. of construction of industrial buildings, flat slab and structural steel (\$4 000 000). *TT 1.5: P 1.5: RC 0.3: D 0.1.* Feb. 1922 to April 1924 Concrete Designer, Cleveland Union Terminals Co., designing, detailing and estimating retaining walls, buildings, bridges, tunnels, foundations and underpinning. *TT 2.2: P 2.2: RC 2.2: D 2.2.* April 1924 to Feb. 1925 Engr. and Estimator, Asher Fireproofing Co., Cleveland, on reinforced concrete building work for contracting company. *TT 1.9: P 1.9: RC 1.9: D 1.* Feb. 1925 to Dec. 1926 Southern Mgr., Anchor Fireproofing Co., Detroit, Mich., in charge of office at Atlanta, Ga. *TT 1.3: P 1.8: RC 1.8.* Jan. 1927 to date Pres., Southern Fireproofing Co., Atlanta, contracting for fireproof masonry, work in building construction. *TT 0.3: P 0.3.* *TT 13.8: SP 5.3: P 8.5: RC 6.5: D 3.8.* Refers to H. Kercher, C. P. Marsh, R. E. Petty, H. W. Roberts, K. Smith.

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(9) PETERSON, HOWARD GEORGE, Jun., 4136 Florida Ave., Cincinnati, Ohio. (Elected June 19, 1922.) (Age 31. Born Dayton, Ohio.) 1920 C. E., Univ. of Cincinnati. *TT 2: SP 2.* 1914 to 1916 Draftsman with F. J. Hughes, Archt., Dayton, Ohio. *TT 2: SP 2.* 1917 to 1920 Draftsman and Bridge Designer, Chf. Engr.'s office, Cleveland, Cincinnati, Chicago & St. Louis R. R., Cincinnati, Ohio. May 1920 to Oct. 1923 Engr. on bridges and structures, Miami Conservancy Dist., Dayton. *TT 3.5: P 3.5: D 3.5.* Nov. 1923 to Jan. 1925 Jun. Engr., U. S. Army, at Cincinnati, Ohio, report on Ohio River to Lake Erie Canal. *TT 1.3: P 1.3: RC 1.3.* Feb. 1925 to date Office Engr., Cincinnati Branch, Truscon Steel Co.

of Youngstown, Ohio, estimating, designing, construction supervision, etc. *TT 2.2: P 2.2: RC 2.2. TT 11: SP 4: P 7: RC 3.5: D 3.5.* Refers to G. M. Braune, C. I. Grimm, O. W. Irwin, J. H. Kimball, C. W. Kutz, C. H. Paul, E. K. Ruth, C. H. Shea.

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(1) **PILOFF, ALBERT KAY**, Jun., 89 Bainbridge St., Brooklyn, N. Y. (Elected Nov. 9, 1920.) (Age 30. Born Brooklyn, N. Y.) Prof. Engr. and Land Surveyor, New York State. 1920 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Feb. to Nov. 1920 Draftsman, Pennsylvania R. R., field design. *TT 0.7: P 0.7.* Nov. 1920 to Dec. 1921 Engr., and Dec. 1921 to June 1926 Asst. Chf. Engr., City-Wastes Disposal Co., on surveys, designs, plans and specifications for sewerage systems and disposal works, on street rectification for Woodridge, N. Y., in charge of installation of water intake for Woodbridge (Dec. 1921 to Sept. 1922) and of sewerage system at Rye, N. Y. (Sept. 1922 to June 1923), and of construction of sewerage system, Hasbrouck Heights, N. J. (Aug. 1924 to June 1926). *TT 5.6: P 5.6: RC 4.9: D 2.5.* June 1926 to date Chf. Engr., W. H. Greene Corporation, in charge of roads, drainage, bridges and sewers. *TT 0.8: P 0.8: RC 0.8: D 0.6. TT 9.1: SP 2: P 7.1 RC 5.7: D 3.1.* Refers to L. L. Balleisen, E. R. Cary, J. R. Forsyth, J. F. Kern, T. R. Lawson, P. C. Ricketts, F. W. Saunderson.

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(14) **STANNARD, GRANT AARON**, Jun., 3001 Ryons St., Lincoln, Nebr. (Elected July 11, 1921.) (Age 30. Born Gordon, Nebr.) 1919 A. B., Univ. of Nebr. *TT 2: SP 2.* May to Oct. 1918 Instructor in electrical construction, Univ. of Nebraska Radio Training School, U. S. Army. June 1919 to date Associate Engr. with Grant, Fulton & Letton, Engrs., Lincoln, Nebr., on surveys and design, and Res. Engr. in charge of construction of paving, storm and sanitary sewers, water and sewer extensions, a sewage-disposal plant, an electric transmission line, etc., in various cities in Nebraska, and at Mankato, Kans. *TT 7.7: SP 0.9: P 6.8: RC 6: D 0.8. TT 9.7: SP 2.9: P 6.8: RC 6: D 0.8.* Refers to E. W. Bennison, C. R. Fulton, W. Grant, R. M. Green, H. P. Letton, C. C. Nicholls.

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(14) **TURNER, WEBSTER FRANKLIN**, Jun., State Highway Dept., Jonesboro, Ark. (Elected Oct. 2, 1922.) (Age 27. Born Atkins, Ark.) Registered Prof. Engr., State of Arkansas. 2 years student, Henderson-Brown Coll., Arkadelphia, Ark. July to Sept. 1919 Rodman and Levelman, Parkes Eng., Co., Pine Bluff, Ark. *TT 0.2: SP 0.2.* Sept. 1919 to Oct. 1922 Transitman and Asst. to Res. Engr. on 28 miles bituminous macadam project, Pope County, Ark., 4 months acting as Res. Engr., inspecting materials for bridges, etc. *TT 3.1: SP 2.8: P 0.3: RC 0.3.* Oct. 1922 to Oct. 1923 Transitman and Asst. on location, Salt Bayou Drainage Dist., Jefferson and Arkansas Counties, later in charge of soundings and estimates on other ditches, and remainder of time Res. Engr. on Paving Dist. 58, Pine Bluff, Ark., reinforced concrete, lines, grades and supervision, 2 months in charge of painting superstructure of bridge across Arkansas River at Pine Bluff, Res. Engr. on road job, Cleveland County, etc. *TT 1: SP 0.6: P 0.4: RC 0.4: D 0.3.* Oct. 1923 to date with Arkansas State Highway Dept., Russellville, Ark., until July 1925 as Res. Engr. in charge of construction, surfacing 23 miles of bituminous macadam (penetration) road, on Road Imp. Dist. No. 1, Pope County, and (one month) on Road Imp. Dist. No. 2 (Amiesite pavement); during winter made location surveys and had charge of some bridge construction for Dist. Engr. of Ft. Smith, Ark., Crawford and Johnson Counties; since July 1925 Asst. Dist. Engr., on maintenance, construction and bridge work on 800 miles of state road in Dist. No. 8 (7 counties) and (since Jan. 1927) Dist. No. 10 (7 counties), Jonesboro, Ark., on 790 miles of state road. *TT 3.4: P 3.4: RC 3.4: D 2.4. TT 7.7: SP 3.6: P 4.1: RC 4.1: D 2.7.* Refers to N. B. Garver, F. A. Gerig, H. C. Sellers, G. H. Sykes, C. O. Thomas.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.